

<213> Unknown (H38g475 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(330)

<223> Xaa = Any Amino Acid

<400> 1558

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| His | Thr | Glu | Pro | Arg | His | Leu | Thr | Gly | Val | Xaa | Glu | Phe | Leu | Leu | Val |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |
| Gly | Leu | Ser | Glu | Asp | Pro | Glu | Leu | Gln | Pro | Val | Leu | Gly | Gly | Val | Ser |
| | | | 20 | | | | | 25 | | | | | 30 | | |
| Leu | Ser | Met | Tyr | Gly | Val | Thr | Val | Ile | Arg | Asn | Val | Leu | Ile | Ile | Leu |
| | | 35 | | | | | 40 | | | | | 45 | | | |
| Gly | Val | Ser | Ser | Asp | Ser | His | Leu | His | Thr | Pro | Met | Tyr | Phe | Phe | Leu |
| | 50 | | | | | 55 | | | | | 60 | | | | |
| Ser | Asn | Val | Trp | Trp | Ala | Asp | Ile | Ser | Phe | Thr | Ser | Ala | Gly | Val | Pro |
| 65 | | | | | 70 | | | | | 75 | | | | 80 | |
| Lys | Met | Thr | Val | Asp | Met | Gln | Ser | His | Ser | Arg | Val | Ile | Tyr | Tyr | Ala |
| | | | | 85 | | | | | 90 | | | | | 95 | |
| Gly | Cys | Met | Thr | Arg | Met | Ser | Phe | Phe | Val | Leu | Leu | Ala | Cys | Ile | Glu |
| | | | 100 | | | | | 105 | | | | | 110 | | |
| Asp | Met | Leu | Val | Cys | Val | Met | Ala | Xaa | Glu | Cys | Phe | Val | Ala | Met | Cys |
| | | 115 | | | | | 120 | | | | | 125 | | | |
| Arg | Pro | Val | Gln | Tyr | Thr | Val | Ile | Val | Asn | Pro | His | Leu | Cys | Val | Phe |
| | 130 | | | | | 135 | | | | | 140 | | | | |
| Arg | Val | Gly | Val | Ser | Phe | Leu | Gln | Ser | Val | Leu | Tyr | Ser | Gln | Val | His |
| 145 | | | | | 150 | | | | | 155 | | | | 160 | |
| Arg | Xaa | Ser | Val | Ser | Gln | Phe | Thr | Phe | Phe | Lys | Asn | Val | Glu | Ile | Ser |
| | | | | 165 | | | | | 170 | | | | | 175 | |
| His | Phe | Val | Cys | Glu | Pro | Ser | Gln | Phe | Leu | His | Phe | Ala | Cys | Cys | Asp |
| | | | 180 | | | | | 185 | | | | | 190 | | |
| Ser | Phe | Ile | Lys | Ser | Ile | Phe | Met | Tyr | Phe | Asp | Ser | Asn | Met | Phe | Gly |
| | 195 | | | | | | 200 | | | | | 205 | | | |
| Phe | Leu | Pro | Ile | Thr | Gly | Ile | Phe | Leu | Ser | Xaa | Tyr | Lys | Ser | Val | Pro |
| | 210 | | | | | 215 | | | | | 220 | | | | |
| Ser | Ile | Ile | Arg | Ile | Ser | Ser | Ser | Asp | Gly | Lys | Tyr | Lys | Ala | Phe | Ser |
| 225 | | | | 230 | | | | | | 235 | | | | 240 | |
| Thr | Cys | Gly | Ser | His | Val | Ala | Val | Val | Cys | Leu | Leu | Tyr | Gly | Thr | Gly |
| | | | | 245 | | | | | 250 | | | | | 255 | |
| Ile | Gly | Val | Tyr | Met | Thr | Ser | Gly | Val | Ala | Pro | Pro | Pro | Ser | Asn | Gly |
| | | | 260 | | | | | 265 | | | | | 270 | | |
| Val | Val | Ala | Ser | Val | Lys | Tyr | Ala | Val | Val | Thr | Pro | Met | Leu | Thr | Pro |
| | | 275 | | | | | 280 | | | | | 285 | | | |
| Phe | Ile | Tyr | Ser | Val | Arg | Asn | Arg | Asp | Ile | Gln | Ser | Pro | Leu | Trp | Ser |
| | 290 | | | | | 295 | | | | | 300 | | | | |
| Val | Cys | Ser | Ser | Thr | Val | Lys | Ser | Phe | Asp | Val | Ser | His | Leu | Phe | Cys |
| 305 | | | | | 310 | | | | | 315 | | | | 320 | |
| Val | Trp | Val | Arg | Lys | Gly | Thr | His | Ile | Lys | | | | | | |
| | | | | 325 | | | | | 330 | | | | | | |

<210> 1559

<211> 170

<212> PRT

<213> Unknown (H38g476 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(170)

<223> Xaa = Any Amino Acid

<400> 1559

```

His Thr Gln Pro Arg Gly Leu Thr Arg Val Xaa Glu Phe Leu Leu Leu
 1           5           10           15
Gly Leu Ser Gln Asp Pro Gln Leu Gln Pro Val Leu Ser Gly Leu Ser
          20           25           30
Leu Cys Met Cys Leu Gly Thr Gln Leu Gly Asn Leu Leu Ile Ile Leu
          35           40           45
Gly Val Ser Ser Asp Ser His Leu His Thr Pro Met Tyr Ser Phe Leu
          50           55           60
Ser Asn Leu Ser Gly Ala Asp Ile Ser Phe Thr Ser Thr Thr Gly Pro
65          70           75           80
Lys Leu Ile Val Asp Ile His Ser Tyr Thr Arg Asp Ile Ser Tyr Ala
          85           90           95
Arg Cys Leu Thr His Thr Pro Leu Phe Ala Ile Phe Gly Gly Val Glu
          100          105          110
Arg Asp Met Leu Leu Arg Val Met Gly Tyr Asp Arg Val Val Asp Ile
          115          120          125
Cys Asp Pro Leu Tyr His Ser His Ala Met Asn Pro Cys Val Cys Gly
130          135          140
Ser Leu Asp Leu Trp Ser Leu Phe Phe Leu Thr Leu Leu Tyr Thr His
145          150          155          160
Leu His Asn Ser Ile Ala Leu His Met Thr
          165          170

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<210> 1560

<211> 322

<212> PRT

<213> Unknown (H38g477 protein)

<220>

<223> Synthetic construct

<400> 1560

```

Met Asn Glu Thr Asn His Ser Trp Val Thr Glu Phe Val Leu Leu Gly
 1           5           10           15
Leu Ser Ser Ser Arg Glu Leu Gln Pro Phe Leu Phe Leu Ile Phe Ser
          20           25           30
Leu Leu Tyr Leu Ala Ile Leu Leu Gly Asn Phe Leu Ile Ile Leu Thr
          35           40           45
Val Thr Ser Asp Ser Arg Leu His Thr Pro Met Tyr Phe Leu Leu Ala
          50           55           60
Asn Leu Ser Phe Ile Asp Val Cys Val Ala Ser Ser Ala Thr Pro Lys
65          70           75           80
Met Ile Ala Asp Phe Leu Val Glu His Lys Thr Ile Ser Phe Asp Ala
          85           90           95
Arg Leu Ala Gln Ile Phe Phe Val His Leu Phe Thr Gly Ser Glu Met
          100          105          110
Val Leu Leu Val Ser Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Lys
          115          120          125
Pro Pro His Tyr Met Thr Ile Met Ser Cys Cys Val Cys Val Val Leu
130          135          140
Phe Leu Ile Ser Trp Phe Val Gly Phe Ile His Thr Thr Ser Gln Leu
145          150          155          160
Ala Phe Thr Val Asn Leu Pro Phe Cys Gly Pro Asn Lys Val Asp Ser
          165          170          175
Phe Phe Cys Asp Leu Pro Leu Val Thr Lys Leu Ala Cys Ile Asp Thr
          180          185          190

```

Tyr Val Val Ser Leu Leu Ile Val Ala Asp Ser Gly Phe Leu Ser Leu
 195 200 205
 Ser Ser Phe Leu Leu Leu Val Val Ser Tyr Thr Val Ile Leu Val Thr
 210 215 220
 Val Arg Asn Ser Ser Ser Val Ser Met Val Lys Ala Cys Ser Thr Leu
 225 230 235 240
 Thr Ala His Ile Thr Val Val Thr Leu Phe Gly Pro Cys Ile Phe
 245 250 255
 Ile Tyr Val Trp Pro Phe Ser Ser Tyr Ser Val Asp Lys Val Leu Ala
 260 265 270
 Val Phe Tyr Thr Ile Phe Thr Ser Ile Leu Asn Pro Val Ile Tyr Met
 275 280 285
 Leu Arg Asn Lys Glu Val Lys Ala Ala Met Ser Lys Leu Lys Ser Arg
 290 295 300
 Tyr Gln Lys Leu Gly Gln Val Ser Val Val Ile Arg Asn Val Leu Phe
 305 310 315 320
 Leu Glu

<210> 1561

<211> 314

<212> PRT

<213> Unknown (H38g478 protein)

<220>

<223> Synthetic construct

<400> 1561

Met Glu Gly Phe Asn Tyr Ser Arg Val Ser Glu Phe Met Leu Leu Gly
 1 5 10 15
 Leu Thr Asp Ser Pro Glu Leu Gln Ile Phe Phe Phe Val Val Phe Ser
 20 25 30
 Val Phe Tyr Leu Met Thr Met Leu Gly Asn Cys Leu Ile Leu Leu Thr
 35 40 45
 Val Leu Ser Thr Ser His Leu His Ser Arg Thr Tyr Phe Leu Leu Ser
 50 55 60
 Asn Leu Ser Ile Asp Met Cys Leu Ser Ser Phe Ala Thr Pro Lys Met
 65 70 75 80
 Ile Met Asp Phe Phe Ala Leu Arg Lys Thr Ile Ser Phe Glu Gly Cys
 85 90 95
 Ile Ser Gln Ile Phe Phe Leu His Leu Phe Asn Gly Thr Glu Ile Val
 100 105 110
 Leu Leu Ile Ser Met Ser Phe Asp Arg Tyr Ile Ala Ile Cys Lys Pro
 115 120 125
 Leu Arg Tyr Ser Thr Ile Met Ser Gln Arg Val Cys Val Glu Leu Val
 130 135 140
 Ala Val Ser Cys Trp Thr Val Gly Phe Leu His Thr Met Ser Gln Leu
 145 150 155 160
 Val Phe Ala Leu Tyr Leu Pro Phe Cys Val Pro Asn Val Val Asp Ser
 165 170 175
 Phe Phe Cys Asp Leu Pro Leu Val Ile Gln Leu Ala Cys Ile Asp Ile
 180 185 190
 Tyr Val Leu Gly Thr Ser Met Ile Ser Thr Ser Gly Val Thr Ala Leu
 195 200 205
 Thr Ser Phe Leu Leu Leu Leu Thr Ser Tyr Ile Ile Val Leu Asn Thr
 210 215 220
 Ile Arg Asp Tyr Ser Ser Thr Gly Ser Ser Lys Ala Leu Ser Thr Cys
 225 230 235 240
 Thr Ala His Phe Ile Val Val Leu Met Phe Phe Gly Pro Cys Ile Phe
 245 250 255
 Ile Tyr Val Trp Pro Ser Thr Asn Phe Leu Val Asp Lys Ile Leu Ser

260 265 270
 Val Phe Tyr Thr Ile Phe Thr Pro Phe Leu Asn Pro Leu Ile Tyr Thr
 275 280 285
 Leu Arg Asn Gln Glu Val Lys Thr Ala Met Lys Lys Lys Leu Asn Ile
 290 295 300
 Gln Tyr Phe Ser Leu Gly Lys Thr Ala Pro
 305 310

<210> 1562

<211> 198

<212> PRT

<213> Unknown (H38g479 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(198)

<223> Xaa = Any Amino Acid

<400> 1562

Met Asn Pro Cys Leu Cys Gly Phe Arg Val Val Val Ser Phe Phe Phe
 1 5 10 15
 His Ser Leu Leu Gly Ala Gln Val His Asn Leu Ser Ala Ser Gln Met
 20 25 30
 Thr Cys Phe Glu Tyr Val Glu Ile His Asn Phe Leu Trp Ala Leu Ser
 35 40 45
 Gln Leu Pro His Arg Ala Trp Cys Asp Thr Phe Pro Asn Asn Ile Ile
 50 55 60
 Val Tyr Phe Pro Ala Ala Ile Phe Gly Phe Leu Pro Ile Ala Gly Thr
 65 70 75 80
 Leu Phe Ser Xaa Tyr Glu Ser Val Ser Ser Ile Glu Arg Val Ser Ser
 85 90 95
 Xaa Gly Gly Glu Tyr Lys Ala Phe Pro Thr Cys Gly Ser His Leu Ser
 100 105 110
 Val Val Cys Xaa Leu Tyr Gly Thr Gly Val Gly Gly His Leu Ser Ser
 115 120 125
 Asp Val Ser Ser Ser Pro Arg Lys Ser Ala Val Ala Ser Val Met Tyr
 130 135 140
 Thr Val Val Thr Pro Met Leu Asn Pro Phe Ile Tyr Ser Met Arg Asn
 145 150 155 160
 Arg Asp Thr Lys Ser Val Leu Arg Arg Pro His Gly Ser Thr Val Xaa
 165 170 175
 Phe Xaa Tyr Leu Leu Ile Cys Pro Ile Pro Phe Val Val Trp Val Lys
 180 185 190
 Lys Gly Arg Lys Val Lys
 195

<210> 1563

<211> 314

<212> PRT

<213> Unknown (H38g480 protein)

<220>

<223> Synthetic construct

<400> 1563

Met Leu Gly Leu Asn Gly Thr Pro Phe Gln Pro Ala Thr Leu Gln Leu
 1 5 10 15
 Thr Gly Ile Pro Gly Ile Gln Thr Gly Leu Thr Trp Val Ala Leu Ile
 20 25 30

Phe Cys Ile Leu Tyr Met Ile Ser Ile Val Gly Asn Leu Ser Ile Leu
 35 40 45
 Thr Leu Val Phe Trp Glu Pro Ala Leu His Gln Pro Met Tyr Tyr Phe
 50 55 60
 Leu Ser Met Leu Ala Leu Asn Asp Leu Gly Val Ser Phe Ser Thr Leu
 65 70 75 80
 Pro Thr Val Ile Ser Thr Phe Cys Phe Asn Tyr Asn His Val Ala Phe
 85 90 95
 Asn Ala Cys Leu Val Gln Met Phe Phe Ile His Thr Phe Ser Phe Met
 100 105 110
 Glu Ser Gly Ile Leu Leu Ala Met Ser Leu Asp Arg Phe Val Ala Ile
 115 120 125
 Cys Tyr Pro Leu Arg Tyr Val Thr Val Leu Thr His Asn Arg Ile Leu
 130 135 140
 Ala Met Gly Leu Gly Ile Leu Thr Lys Ser Phe Thr Thr Leu Phe Pro
 145 150 155 160
 Phe Pro Phe Val Val Lys Arg Leu Pro Phe Cys Lys Gly Asn Val Leu
 165 170 175
 His His Ser Tyr Cys Leu His Pro Asp Leu Met Lys Val Ala Cys Gly
 180 185 190
 Asp Ile His Val Asn Asn Ile Tyr Gly Leu Leu Val Ile Ile Phe Thr
 195 200 205
 Tyr Gly Met Asp Ser Thr Phe Ile Leu Leu Ser Tyr Ala Leu Ile Leu
 210 215 220
 Arg Ala Met Leu Val Ile Ile Ser Gln Glu Gln Arg Leu Lys Ala Leu
 225 230 235 240
 Asn Thr Cys Met Ser His Ile Cys Ala Val Leu Ala Phe Tyr Val Pro
 245 250 255
 Ile Ile Ala Val Ser Met Ile His Arg Phe Trp Lys Ser Ala Pro Pro
 260 265 270
 Val Val His Val Met Met Ser Asn Val Tyr Leu Phe Val Pro Pro Met
 275 280 285
 Leu Asn Pro Ile Ile Tyr Ser Val Lys Thr Lys Glu Ile Arg Lys Gly
 290 295 300
 Ile Leu Lys Phe Phe His Lys Ser Gln Ala
 305 310

<210> 1564

<211> 312

<212> PRT

<213> Unknown (H38g481 protein)

<220>

<223> Synthetic construct

<400> 1564

Met Gly Leu Phe Asn Val Thr His Pro Ala Phe Phe Leu Leu Thr Gly
 1 5 10 15
 Ile Pro Gly Leu Glu Ser Ser His Ser Trp Leu Ser Gly Pro Leu Cys
 20 25 30
 Val Met Tyr Ala Val Ala Leu Gly Gly Asn Thr Val Ile Leu Gln Ala
 35 40 45
 Val Arg Val Glu Pro Ser Leu His Glu Pro Met Tyr Tyr Phe Leu Ser
 50 55 60
 Met Leu Ser Phe Ser Asp Val Ala Ile Ser Met Ala Thr Leu Pro Thr
 65 70 75 80
 Val Leu Arg Thr Phe Cys Leu Asn Ala Arg Asn Ile Thr Phe Asp Ala
 85 90 95
 Cys Leu Ile Gln Met Phe Leu Ile His Phe Phe Ser Met Met Glu Ser
 100 105 110
 Gly Ile Leu Leu Ala Met Ser Phe Asp Arg Tyr Val Ala Ile Cys Asp

```

      115      120      125
Pro Leu Arg Tyr Ala Thr Val Leu Thr Thr Glu Val Ile Ala Ala Met
      130      135      140
Gly Leu Gly Ala Ala Ala Arg Ser Phe Ile Thr Leu Phe Pro Leu Pro
145      150      155      160
Phe Leu Ile Lys Arg Leu Pro Ile Cys Arg Ser Asn Val Leu Ser His
      165      170      175
Ser Tyr Cys Leu His Pro Asp Met Met Arg Leu Ala Cys Ala Asp Ile
      180      185      190
Ser Ile Asn Ser Ile Tyr Gly Leu Phe Val Leu Val Ser Thr Phe Gly
      195      200      205
Met Asp Leu Phe Phe Ile Phe Leu Ser Tyr Val Leu Ile Leu Arg Ser
      210      215      220
Val Met Ala Thr Ala Ser Arg Glu Glu Arg Leu Lys Ala Leu Asn Thr
225      230      235      240
Cys Val Ser His Ile Leu Ala Val Leu Ala Phe Tyr Val Pro Met Ile
      245      250      255
Gly Val Ser Thr Val His Arg Phe Gly Lys His Val Pro Cys Tyr Ile
      260      265      270
His Val Leu Met Ser Asn Val Tyr Leu Phe Val Pro Pro Val Leu Asn
      275      280      285
Pro Leu Ile Tyr Ser Ala Lys Thr Lys Glu Ile Arg Arg Ala Ile Phe
      290      295      300
Arg Met Phe His His Ile Lys Ile
305      310

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<210> 1565

<211> 156

<212> PRT

<213> Unknown (H38g482 protein)

<220>

<223> Synthetic construct

<400> 1565

```

Met Glu Ser Asn Gln Thr Trp Ile Thr Glu Val Ile Leu Leu Gly Phe
 1      5      10      15
Gln Val Asp Pro Ala Leu Glu Leu Phe Leu Phe Gly Phe Phe Leu Leu
      20      25      30
Phe Tyr Ser Leu Thr Leu Met Gly Asn Gly Ile Ile Leu Gly Leu Ile
      35      40      45
Tyr Leu Asp Ser Arg Leu His Thr Pro Met Tyr Val Phe Leu Ser His
      50      55      60
Leu Ala Ile Val Asp Met Ser Tyr Ala Ser Ser Thr Val Pro Lys Met
      65      70      75      80
Leu Ala Asn Leu Val Met His Lys Lys Val Ile Ser Phe Ala Pro Cys
      85      90      95
Ile Leu Gln Thr Phe Leu Tyr Leu Ala Phe Ala Ile Thr Glu Cys Leu
      100      105      110
Ile Leu Val Met Met Cys Tyr Asp Arg Tyr Val Ala Ile Cys His Pro
      115      120      125
Leu Ala Tyr Thr Pro Ile Ile Met Asn Trp Arg Val Cys Thr Val Leu
      130      135      140
Ala Ser Thr Cys Trp Ile Phe Ser Phe Leu Leu Ala
145      150      155

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<210> 1566

<211> 329

<212> PRT

<213> Unknown (H38g483 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(329)

<223> Xaa = Any Amino Acid

<400> 1566

```

Met Glu Cys Asn Gln Thr Trp Ile Thr Asp Ile Thr Leu Leu Gly Phe
 1           5           10           15
Gln Val Gly Pro Ala Leu Ala Ile Leu Ile Tyr Glu Leu Phe Ser Val
          20           25           30
Phe Tyr Thr Leu Thr Leu Leu Gly Asn Gly Val Ile Phe Gly Ile Ile
          35           40           45
Cys Leu Asp Ser Lys Leu His Thr Pro Met Tyr Phe Phe Leu Ser His
          50           55           60
Leu Ala Ile Ile Asp Met Ser Tyr Ala Ser Asn Asn Val Pro Lys Met
          65           70           75           80
Leu Ala Asn Leu Met Asn Gln Lys Arg Thr Ile Ser Phe Val Pro Cys
          85           90           95
Ile Met Gln Thr Phe Leu Tyr Leu Ala Phe Ala Val Thr Glu Cys Leu
          100          105          110
Ile Leu Val Val Met Ser Tyr Asp Arg Tyr Val Ala Ile Cys His Pro
          115          120          125
Phe Gln Tyr Thr Val Ile Met Ser Trp Arg Val Cys Thr Ile Leu Val
          130          135          140
Leu Thr Ser Trp Ser Cys Gly Phe Ala Leu Ser Leu Val His Glu Ile
          145          150          155          160
Leu Leu Leu Arg Leu Pro Phe Cys Gly Pro Arg Asp Val Asn His Leu
          165          170          175
Phe Cys Glu Ile Leu Ser Val Leu Lys Leu Ala Cys Ala Asp Thr Trp
          180          185          190
Val Asn Gln Val Val Ile Phe Ala Thr Cys Val Phe Val Leu Val Gly
          195          200          205
Pro Leu Ser Leu Ile Leu Val Ser Tyr Met His Ile Leu Gly Ala Ile
          210          215          220
Leu Lys Ile Gln Thr Lys Glu Gly Arg Ile Lys Ala Phe Ser Thr Cys
          225          230          235          240
Ser Ser His Leu Cys Val Val Gly Leu Phe Phe Gly Ile Ala Met Val
          245          250          255
Val Tyr Met Val Pro Asp Ser Asn Gln Arg Glu Glu Gln Glu Lys Met
          260          265          270
Leu Ser Leu Phe His Ser Val Leu Asn Pro Met Leu Asn Pro Leu Ile
          275          280          285
Tyr Ser Leu Arg Asn Ala Gln Leu Lys Gly Ala Leu His Arg Ala Leu
          290          295          300
Gln Arg Lys Arg Ser Met Arg Thr Val Tyr Gly Leu Cys Leu Xaa Asn
          305          310          315          320
Met Trp Phe Ala Glu Ala Arg Ile Leu
          325

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<210> 1567

<211> 313

<212> PRT

<213> Unknown (H38g484 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(313)

<223> Xaa = Any Amino Acid

<400> 1567

```

Met Gly Val Asn Gln Ser Trp Ser Pro Glu Phe Ile Leu Val Glu Ser
 1           5           10           15
Gln Leu Ser Ala Glu Met Glu Val Leu Leu Phe Xaa Ile Phe Ser Leu
          20           25           30
Leu Tyr Ile Phe Ser Leu Leu Ala Asn Gly Met Ile Leu Gly Leu Ile
          35           40           45
Cys Leu Asp His Ile Leu Pro Thr Pro Met Tyr Phe Phe Leu Ser His
          50           55           60
Leu Ala Ile Ile Asp Met Ser Tyr Ala Ser Asn Asn Val Pro Lys Met
          65           70           75           80
Leu Ala Asn Leu Met Asn Lys Lys Arg Thr Ile Ser Phe Leu Pro Cys
          85           90           95
Ile Met Gln Thr Tyr Leu Tyr Phe Ser Phe Ala Ala Thr Glu Cys Leu
          100          105          110
Ile Leu Val Val Met Ser Tyr Asp Arg Tyr Val Ala Ile Cys His Pro
          115          120          125
Leu Gln Tyr Thr Val Ile Met Ser Trp Arg Val Cys Thr Ile Leu Ala
          130          135          140
Leu Thr Ser Trp Ser Cys Gly Phe Ala Leu Ser Leu Val His Ala Ile
          145          150          155          160
Leu Leu Leu Arg Leu Pro Phe Cys Gly Pro Arg Asp Val Asn His Leu
          165          170          175
Phe Cys Glu Ile Leu Ser Val Leu Lys Leu Ala Cys Ser Asp Thr Trp
          180          185          190
Val Asn Gln Val Val Ile Phe Ala Thr Cys Val Phe Val Leu Val Gly
          195          200          205
Pro Leu Cys Leu Met Leu Val Ser Tyr Met His Ile Leu Leu Ala Ile
          210          215          220
Leu Lys Ile Gln Thr Lys Glu Gly Arg Ile Lys Ala Phe Ser Thr Cys
          225          230          235          240
Ser Ser His Leu Cys Val Val Gly Leu Phe Phe Gly Ile Ala Met Val
          245          250          255
Val Tyr Ile Val Pro Asp Ser Asn Gln Arg Glu Glu Gln Glu Lys Met
          260          265          270
Leu Ser Leu Phe His Ser Val Leu Asn Pro Ile Leu Asn Pro Leu Ile
          275          280          285
Tyr Ser Leu Arg Asn Ala Gln Val Lys Gly Ala Leu His Arg Ala Leu
          290          295          300
Gln Arg Thr Leu Ser Met Xaa Gly Val
          305          310

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<210> 1568

<211> 334

<212> PRT

<213> Unknown (H38g485 protein)

<220>

<223> Synthetic construct

<400> 1568

```

Met Cys Tyr Leu Ser Gln Leu Cys Leu Ser Leu Gly Glu His Thr Leu
 1           5           10           15
His Met Gly Met Val Arg His Thr Asn Glu Ser Asn Leu Ala Gly Phe
          20           25           30
Ile Leu Leu Gly Phe Ser Asp Tyr Pro Gln Leu Gln Lys Val Leu Phe
          35           40           45
Val Leu Ile Leu Ile Leu Tyr Leu Leu Thr Ile Leu Gly Asn Thr Thr
          50           55           60

```

Ile Ile Leu Val Ser Arg Leu Glu Pro Lys Leu His Met Pro Met Tyr
 65 70 75 80
 Phe Phe Leu Ser His Leu Ser Phe Leu Tyr Arg Cys Phe Thr Ser Ser
 85 90 95
 Val Ile Pro Gln Leu Leu Val Asn Leu Trp Glu Pro Met Lys Thr Ile
 100 105 110
 Ala Tyr Gly Gly Cys Leu Val His Leu Tyr Asn Ser His Ala Leu Gly
 115 120 125
 Ser Thr Glu Cys Val Leu Pro Ala Val Met Ser Cys Asp Arg Tyr Val
 130 135 140
 Ala Val Cys Arg Pro Leu His Tyr Thr Val Leu Met His Ile His Leu
 145 150 155 160
 Cys Met Ala Leu Ala Ser Met Ala Trp Leu Ser Gly Ile Ala Thr Thr
 165 170 175
 Leu Val Gln Ser Thr Leu Thr Leu Gln Leu Pro Phe Cys Gly His Arg
 180 185 190
 Gln Val Asp His Phe Ile Cys Glu Val Pro Val Leu Ile Lys Leu Ala
 195 200 205
 Cys Val Gly Thr Thr Phe Asn Glu Ala Glu Leu Phe Val Ala Ser Ile
 210 215 220
 Leu Phe Leu Ile Val Pro Val Ser Phe Ile Leu Val Ser Ser Gly Tyr
 225 230 235 240
 Ile Ala His Ala Val Leu Arg Ile Lys Ser Ala Thr Arg Arg Gln Lys
 245 250 255
 Ala Phe Gly Thr Cys Phe Ser His Leu Thr Val Val Thr Ile Phe Tyr
 260 265 270
 Gly Thr Ile Ile Phe Met Tyr Leu Gln Pro Ala Lys Ser Arg Ser Arg
 275 280 285
 Asp Gln Gly Lys Phe Val Ser Leu Phe Tyr Thr Val Val Thr Arg Met
 290 295 300
 Leu Asn Pro Leu Ile Tyr Thr Leu Arg Ile Lys Glu Val Lys Gly Ala
 305 310 315 320
 Leu Lys Lys Val Leu Ala Lys Ala Leu Gly Val Asn Ile Leu
 325 330

<210> 1569

<211> 170

<212> PRT

<213> Unknown (H38g486 protein)

<220>

<223> Synthetic construct

<400> 1569

Met Glu Gly Asn Lys Thr Trp Ile Thr Asp Ile Thr Leu Pro Arg Phe
 1 5 10 15
 Gln Val Gly Pro Ala Leu Glu Ile Leu Leu Cys Gly Leu Phe Ser Ala
 20 25 30
 Phe Tyr Thr Leu Thr Leu Leu Gly Asn Gly Val Ile Phe Gly Ile Ile
 35 40 45
 Cys Leu Asp Cys Lys Leu His Thr Pro Met Tyr Phe Phe Leu Ser His
 50 55 60
 Leu Ala Ile Val Asp Ile Ser Tyr Ala Ser Asn Tyr Val Pro Lys Met
 65 70 75 80
 Leu Thr Asn Leu Met Asn Gln Glu Ser Thr Ile Ser Phe Phe Pro Cys
 85 90 95
 Ile Met Gln Thr Phe Leu Tyr Leu Ala Phe Ala His Val Glu Cys Leu
 100 105 110
 Ile Leu Val Val Met Ser Tyr Asp Arg Tyr Ala Asp Ile Cys His Pro
 115 120 125
 Leu Arg Tyr Asn Ile Leu Met Ser Trp Arg Val Cys Thr Val Leu Ala

130 135 140
 Val Ala Ser Trp Val Phe Ser Phe Leu Leu Ala Leu Val Pro Phe Ser
 145 150 155 160
 Ser Gln Ser Leu Arg Cys Met Asn Val Leu
 165 170

<210> 1570
 <211> 308
 <212> PRT
 <213> Unknown (H38g487 protein)

<220>
 <223> Synthetic construct

<400> 1570
 Met Asp Thr Gly Asn Lys Thr Leu Pro Gln Asp Phe Leu Leu Leu Gly
 1 5 10 15
 Phe Pro Gly Ser Gln Thr Leu Gln Leu Ser Leu Phe Met Leu Phe Leu
 20 25 30
 Val Met Tyr Ile Leu Thr Val Ser Gly Asn Val Ala Ile Leu Met Leu
 35 40 45
 Val Ser Thr Ser His Gln Leu His Thr Pro Met Tyr Phe Phe Leu Ser
 50 55 60
 Asn Leu Ser Phe Leu Glu Ile Trp Tyr Thr Thr Ala Ala Val Pro Lys
 65 70 75 80
 Ala Leu Ala Ile Leu Leu Gly Arg Ser Gln Thr Ile Ser Phe Thr Ser
 85 90 95
 Cys Leu Leu Gln Met Tyr Phe Val Phe Ser Leu Gly Cys Thr Glu Tyr
 100 105 110
 Phe Leu Leu Ala Ala Met Ala Tyr Asp Arg Cys Leu Ala Ile Cys Tyr
 115 120 125
 Pro Leu His Tyr Gly Ala Ile Met Ser Ser Leu Leu Ser Ala Gln Leu
 130 135 140
 Ala Leu Gly Ser Trp Val Cys Gly Phe Val Ala Ile Ala Val Pro Thr
 145 150 155 160
 Ala Leu Ile Ser Gly Leu Ser Phe Cys Gly Pro Arg Ala Ile Asn His
 165 170 175
 Phe Phe Cys Asp Ile Ala Pro Trp Ile Ala Leu Ala Cys Thr Asn Thr
 180 185 190
 Gln Ala Val Glu Leu Val Ala Phe Val Ile Ala Val Val Val Ile Leu
 195 200 205
 Ser Ser Cys Leu Ile Thr Phe Val Ser Tyr Val Tyr Ile Ile Ser Thr
 210 215 220
 Ile Leu Arg Ile Pro Ser Ala Ser Gly Arg Ser Lys Ala Phe Ser Thr
 225 230 235 240
 Cys Ser Ser His Leu Thr Val Val Leu Ile Trp Tyr Gly Ser Thr Val
 245 250 255
 Phe Leu His Val Arg Thr Ser Ile Lys Asp Ala Leu Asp Leu Ile Lys
 260 265 270
 Ala Val His Val Leu Asn Thr Val Val Thr Pro Val Leu Asn Pro Phe
 275 280 285
 Ile Tyr Thr Leu Arg Asn Lys Glu Val Arg Glu Thr Leu Leu Lys Lys
 290 295 300
 Trp Lys Gly Lys
 305

<210> 1571
 <211> 223
 <212> PRT
 <213> Unknown (H38g488 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(223)

<223> Xaa = Any Amino Acid

<400> 1571

Lys Glu Met Gly Cys His Gln Ser Met Val Thr Glu Phe Ile Leu Val
 1 5 10 15
 Gly Phe Gln Leu Ser Ala Glu Met Glu Val Leu Leu Phe Trp Ser Phe
 20 25 30
 Ser Leu Gly Ile Ala Leu Glu Leu Ile Cys Leu Asp His Ser Leu His
 35 40 45
 Thr Pro Tyr Phe Phe Leu Ser His Leu Ala Val Ile Asp Met Ala Tyr
 50 55 60
 Ala Ser Asn Asn Val Pro Lys Met Leu Val Asp Leu Ala Asn Xaa Lys
 65 70 75 80
 Ser Thr Met Cys Phe Phe Pro Cys Ile Met Gln Thr Phe Leu Tyr Leu
 85 90 95
 Ala Phe Ala His Ile Glu Cys Leu Ile Leu Val Val Leu Ser Tyr Asp
 100 105 110
 Arg Tyr Val Ala Ile Cys His Pro Leu Arg Tyr Asn Val Leu Met Ser
 115 120 125
 Trp Arg Glu Cys Thr Val Leu Ala Val Ala Ser Trp Val Phe Ser Phe
 130 135 140
 Leu Leu Ala Leu Val His Leu Val Leu Ile Leu Arg Leu Pro Phe Ser
 145 150 155 160
 Gly Pro His Glu Ile Asn His Tyr Cys Glu Ile Leu Ser Val Leu Lys
 165 170 175
 Leu Ala Cys Ala Asp Thr Trp Leu Asn Gln Val Val Ile Phe Ala Ser
 180 185 190
 Cys Met Phe Ile Leu Val Gly Xaa Leu Cys Leu Val Leu Val Ser Tyr
 195 200 205
 Leu Gly Ile Trp Arg His Leu Arg Ser Val Ala Lys Pro Lys Arg
 210 215 220

<210> 1572

<211> 309

<212> PRT

<213> Unknown (H38g489 protein)

<220>

<223> Synthetic construct

<400> 1572

Met Gly Leu Gly Asn Glu Ser Ser Leu Met Asp Phe Ile Leu Leu Gly
 1 5 10 15
 Phe Ser Asp His Pro Arg Leu Glu Ala Val Leu Phe Val Phe Val Leu
 20 25 30
 Phe Phe Tyr Leu Leu Thr Leu Val Gly Asn Phe Thr Ile Ile Ile Ile
 35 40 45
 Ser Tyr Leu Asp Pro Pro Leu His Thr Pro Met Tyr Phe Phe Leu Ser
 50 55 60
 Asn Leu Ser Leu Leu Asp Ile Cys Phe Thr Thr Ser Leu Ala Pro Gln
 65 70 75 80
 Thr Leu Val Asn Leu Gln Arg Pro Lys Lys Thr Ile Thr Tyr Gly Gly
 85 90 95
 Cys Val Ala Gln Leu Tyr Ile Ser Leu Ala Leu Gly Ser Thr Glu Cys
 100 105 110
 Ile Leu Leu Ala Asp Met Ala Leu Asp Arg Tyr Ile Ala Val Cys Lys

```

      115              120              125
Pro  Leu  His  Tyr  Val  Val  Ile  Met  Asn  Pro  Arg  Leu  Cys  Gln  Gln  Leu
      130              135              140
Ala  Ser  Ile  Ser  Trp  Leu  Ser  Gly  Leu  Ala  Ser  Ser  Leu  Ile  His  Ala
145              150              155              160
Thr  Phe  Thr  Leu  Gln  Leu  Pro  Leu  Cys  Gly  Asn  His  Arg  Leu  Asp  His
      165              170              175
Phe  Ile  Cys  Glu  Val  Pro  Ala  Leu  Leu  Lys  Leu  Ala  Cys  Val  Asp  Thr
      180              185              190
Thr  Val  Asn  Glu  Leu  Val  Leu  Phe  Val  Val  Ser  Val  Leu  Phe  Val  Val
      195              200              205
Ile  Pro  Pro  Ala  Leu  Ile  Ser  Ile  Ser  Tyr  Gly  Phe  Ile  Thr  Gln  Ala
      210              215              220
Val  Leu  Arg  Ile  Lys  Ser  Val  Glu  Ala  Arg  His  Lys  Ala  Phe  Ser  Thr
225              230              235              240
Cys  Ser  Ser  His  Leu  Thr  Val  Val  Ile  Ile  Phe  Tyr  Gly  Thr  Ile  Ile
      245              250              255
Tyr  Val  Tyr  Leu  Gln  Pro  Ser  Asp  Ser  Tyr  Ala  Gln  Asp  Gln  Gly  Lys
      260              265              270
Phe  Ile  Ser  Leu  Phe  Tyr  Thr  Met  Val  Thr  Pro  Thr  Leu  Asn  Pro  Ile
      275              280              285
Ile  Tyr  Thr  Leu  Arg  Asn  Lys  Asp  Met  Lys  Glu  Ala  Leu  Arg  Lys  Leu
      290              295              300
Leu  Ser  Gly  Lys  Leu
305

```

<210> 1573

<211> 337

<212> PRT

<213> Unknown (H38g490 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(337)

<223> Xaa = Any Amino Acid

<400> 1573

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Ser  Thr  Asp  Pro  Gln  Asn  Leu  Thr  Asp  Val  Ser  Val  Phe  Leu  Leu  Leu
 1              5              10              15
Gly  Thr  Thr  Glu  Asp  Pro  Glu  Arg  Gln  Pro  Val  Leu  Thr  Gly  Leu  Phe
      20              25              30
Leu  Ser  Met  Cys  Leu  Val  Met  Val  Leu  Gly  Asn  Leu  Leu  Ile  Ile  Leu
      35              40              45
Ala  Ile  Ser  Pro  Asp  Ser  His  Leu  His  Ile  Pro  Met  Tyr  Phe  Phe  Leu
      50              55              60
Ser  Asn  Leu  Ser  Leu  Pro  Asp  Ile  Gly  Phe  Thr  Ser  Thr  Thr  Val  Pro
65              70              75              80
Lys  Met  Ile  Val  Asp  Ile  Gln  Ser  His  Ser  Arg  Val  Ile  Ser  Tyr  Ala
      85              90              95
Gly  Cys  Leu  Thr  Gln  Met  Ser  Leu  Phe  Ala  Ile  Phe  Gly  Gly  Met  Glu
      100              105              110
Glu  Asn  Met  Leu  Leu  Ser  Val  Met  Ala  Tyr  Asp  Arg  Phe  Val  Ala  Ile
      115              120              125
Cys  His  Pro  Leu  Tyr  His  Ser  Ala  Ile  Met  Asn  Pro  Cys  Phe  Cys  Gly
      130              135              140
Phe  Leu  Val  Leu  Leu  Ser  Phe  Phe  Ser  Val  Leu  Ser  Leu  Leu  Asp  Ser
145              150              155              160
Gln  Leu  His  Asn  Leu  Ile  Ala  Leu  Gln  Val  Thr  Cys  Phe  Lys  Asp  Val
      165              170              175

```


Glu Ile Pro Asn Phe Phe Trp Asp Pro Ser Gln Leu Pro His Leu Ala
 180 185 190
 Cys Cys Asp Thr Phe Thr Asn Lys Ile Ile Met Tyr Phe Pro Ala Ala
 195 200 205
 Ile Phe Gly Phe Leu Pro Ile Ser Gly Thr Leu Phe Ser Tyr Ser Lys
 210 215 220
 Ile Val Ser Ser Ile Leu Arg Val Ser Ser Ser Gly Gly Lys Tyr Lys
 225 230 235 240
 Ala Phe Ser Thr Cys Gly Ser His Leu Ser Val Val Cys Xaa Val Tyr
 245 250 255
 Gly Thr Gly Val Gly Gly Tyr Leu Ser Ser Asp Asp Val Ser Ser Ser
 260 265 270
 Pro Arg Lys Gly Ala Val Ala Ser Val Met Tyr Thr Val Val Thr Pro
 275 280 285
 Met Pro Asn Pro Phe Ile Tyr Ser Leu Arg Asn Arg Asp Ile Lys Ser
 290 295 300
 Val Leu Arg Arg Pro His Gly Ser Thr Val Xaa Ser Gln Tyr Leu Leu
 305 310 315 320
 Ile Cys Ser Ile Pro Phe Val Val Trp Val Lys Lys Gly Arg Lys Val
 325 330 335
 Lys

<210> 1574

<211> 293

<212> PRT

<213> Unknown (H38g491 protein)

<220>

<223> Synthetic construct

<400> 1574

Met Gly Phe Ser Asn Ser Trp Asp Ile Gln Ile Val His Ala Ala Leu
 1 5 10 15
 Phe Phe Leu Val Tyr Leu Ala Ala Val Ile Gly Asn Leu Leu Ile Ile
 20 25 30
 Ile Leu Thr Thr Leu Asp Val His Leu Gln Thr Pro Met Tyr Phe Phe
 35 40 45
 Leu Arg Asn Leu Ser Phe Leu Asp Phe Cys Tyr Ile Ser Val Thr Ile
 50 55 60
 Pro Lys Ser Ile Val Ser Ser Leu Thr His Asp Thr Ser Ile Ser Phe
 65 70 75 80
 Phe Gly Cys Ala Leu Gln Ala Phe Phe Phe Met Asp Leu Ala Thr Thr
 85 90 95
 Glu Val Ala Ile Leu Thr Val Met Ser Tyr Asp Arg Tyr Met Ala Ile
 100 105 110
 Cys Arg Pro Leu His Tyr Glu Val Ile Ile Asn Gln Gly Val Cys Leu
 115 120 125
 Arg Met Met Ala Met Ser Trp Leu Ser Gly Val Ile Cys Gly Phe Met
 130 135 140
 His Val Ile Ala Thr Phe Ser Leu Pro Phe Cys Gly Arg Asn Arg Ile
 145 150 155 160
 Arg Gln Phe Phe Cys Asn Ile Pro Gln Leu Leu Ser Leu Leu Asp Pro
 165 170 175
 Lys Val Ile Thr Ile Glu Ile Gly Val Met Val Phe Gly Thr Ser Leu
 180 185 190
 Val Ile Ile Ser Phe Val Val Ile Thr Leu Ser Tyr Met Tyr Ile Phe
 195 200 205
 Ser Val Ile Met Arg Ile Pro Ser Lys Glu Gly Arg Ser Lys Thr Phe
 210 215 220
 Ser Thr Cys Ile Pro His Leu Val Val Val Thr Leu Phe Met Ile Ser

```
<210> 1575
<211> 341
<212> PRT
<213> Unknown (H38a492 protein)
```

<220>
<223> Synthetic construct

```
<221> VARIANT
<222> (1)...(341)
<223> Xaa = Any Amino Acid
```

| | | | | | | | | | | | | | | | | |
|------------|-----|---------|---------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|---------|--|
| <400> 1575 | | | | | | | | | | | | | | | | |
| Met 1 | Met | Gly | His | Gln 5 | Asn | His | Thr | Phe | Ser 10 | Ser | Asp | Phe | Ile | Leu 15 | Leu | |
| Gly | Leu | Phe | Ser 20 | Ser | Ser | Pro | Thr | Ser 25 | Val | Val | Phe | Phe | Leu 30 | Asp | Asn | |
| Leu | Phe | Ile 35 | Phe | Ile | Met | Ser | Val 40 | Thr | Glu | Asn | Thr | Leu 45 | Met | Ile | Leu | |
| Leu 50 | Ile | Arg | Ser | Asp | Ser | Arg 55 | Leu | His | Thr | Pro | Met 60 | Tyr | Phe | Leu | Leu | |
| Ser 65 | His | Leu | Ser | Leu 70 | Met | Asp | Ile | Leu | His | Val 75 | Ser | Asn | Ile | Val | Pro 80 | |
| Lys | Met | Val | Thr | Asn 85 | Phe | Leu | Ser | Gly | Ser 90 | Arg | Thr | Ile | Ser | Phe 95 | Ala | |
| Gly | Cys | Gly | Phe 100 | Gln | Val | Phe | Leu | Ser 105 | Leu | Thr | Leu | Leu | Gly 110 | Gly | Glu | |
| Cys | Leu | Leu 115 | Leu | Ala | Ala | Met | Ser 120 | Cys | Asp | Arg | Tyr | Val 125 | Ala | Ile | Cys | |
| His 130 | Pro | Leu | Arg | Tyr | Pro | Ile 135 | Leu | Met | Lys | Glu | Tyr 140 | Ala | Ser | Ala | Leu | |
| Met 145 | Ala | Gly | Gly | Ser | Trp | Leu 150 | Ile | Gly | Val | Phe 155 | Asn | Ser | Thr | Val | His 160 | |
| Thr | Ala | Tyr | Ala 165 | Leu | Gln | Phe | Pro | Phe | Cys 170 | Gly | Ser | Arg | Ala 175 | Ile | Asp | |
| His | Phe | Phe 180 | Cys | Glu | Val | Pro | Ala 185 | Met | Leu | Lys | Leu | Ser | Cys 190 | Ala | Asp | |
| Thr | Thr | Arg 195 | Tyr | Glu | Arg | Gly 200 | Val | Cys | Val | Ser | Ala 205 | Val | Ile | Phe | Leu | |
| Leu 210 | Ile | Pro | Phe | Ser | Leu | Ile 215 | Ser | Ala | Ser | Tyr | Gly 220 | Gln | Ile | Ile | Leu | |
| Thr 225 | Val | Leu | Gln | Met | Lys 230 | Ser | Ser | Glu | Ala | Arg 235 | Lys | Lys | Ser | Phe | Ser 240 | |
| Thr | Cys | Ser | Phe 245 | His | Met | Ile | Val | Val | Thr 250 | Met | Tyr | Tyr | Gly 255 | Pro | Phe | |
| Ile | Phe | Thr 260 | Tyr | Met | Arg | Pro | Lys | Ser 265 | Tyr | His | Thr | Pro | Gly 270 | Gln | Asp | |
| Lys | Phe | Leu 275 | Ala | Ile | Phe | Tyr | Thr 280 | Ile | Leu | Thr | Pro | Thr 285 | Leu | Asn | Pro | |
| Phe | Ile | Tyr 290 | Ser | Phe | Arg | Asn 295 | Lys | Asp | Val | Leu | Ala 300 | Val | Met | Thr | Lys | |

Tyr Ala Gln Lys Xaa Leu Ser Ala Gln Lys Asn Glu Xaa Glu Asn Ser
 305 310 315 320
 Xaa Met Cys Val Leu Ser Ile Ser Met Leu Asn Ala Xaa Arg Ile Leu
 325 330 335
 Met Arg Trp Phe Pro
 340

<210> 1576
 <211> 311
 <212> PRT
 <213> Unknown (H38g493 protein)

<220>
 <223> Synthetic construct

<400> 1576
 Met Lys Trp Ala Asn Gln Thr Ala Val Thr Glu Tyr Val Leu Met Gly
 1 5 10 15
 Leu His Glu His Cys Asn Leu Glu Val Val Leu Phe Val Phe Cys Leu
 20 25 30
 Gly Ile Tyr Ser Val Asn Val Leu Gly Asn Ala Leu Leu Ile Gly Leu
 35 40 45
 Asn Val Leu His Pro Arg Leu His Asn Pro Met Tyr Phe Phe Ser Asn
 50 55 60
 Leu Ser Leu Met Asp Ile Cys Gly Thr Ser Ser Phe Val Pro Leu Met
 65 70 75 80
 Leu Asp Asn Phe Leu Glu Thr Gln Arg Thr Ile Ser Phe Pro Gly Cys
 85 90 95
 Ala Leu Gln Met Tyr Leu Thr Leu Ala Leu Gly Ser Thr Glu Cys Leu
 100 105 110
 Leu Leu Ala Val Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Gln Pro
 115 120 125
 Leu Arg Tyr Pro Glu Leu Met Ser Gly Gln Thr Cys Met Gln Met Ala
 130 135 140
 Ala Leu Ser Trp Gly Thr Gly Phe Ala Asn Ser Leu Leu Gln Ser Ile
 145 150 155 160
 Leu Val Trp His Leu Pro Phe Cys Gly His Val Ile Asn Tyr Phe Tyr
 165 170 175
 Glu Ile Leu Ala Val Leu Lys Leu Ala Cys Gly Asp Ile Ser Leu Asn
 180 185 190
 Ala Leu Ala Leu Met Val Ala Thr Ala Val Leu Thr Leu Ala Pro Leu
 195 200 205
 Leu Leu Ile Cys Leu Ser Tyr Leu Phe Ile Leu Ser Ala Ile Leu Arg
 210 215 220
 Val Pro Ser Ala Ala Gly Arg Cys Lys Ala Phe Ser Thr Cys Ser Ala
 225 230 235 240
 His Arg Thr Val Val Val Phe Tyr Gly Thr Ile Ser Phe Met Tyr
 245 250 255
 Phe Lys Pro Lys Ala Lys Asp Pro Asn Val Asp Lys Thr Val Ala Leu
 260 265 270
 Phe Tyr Gly Val Val Thr Pro Ser Leu Asn Pro Ile Ile Tyr Ser Leu
 275 280 285
 Arg Asn Ala Glu Val Lys Ala Ala Val Leu Thr Leu Leu Arg Gly Gly
 290 295 300
 Leu Leu Ser Arg Lys Ala Ser
 305 310

<210> 1577
 <211> 319
 <212> PRT
 <213> Unknown (H38g494 protein)

<220>

<223> Synthetic construct

<400> 1577

```

Met Met Glu Ile Ala Asn Val Ser Ser Pro Glu Val Phe Val Leu Leu
 1           5           10           15
Gly Phe Ser Thr Arg Pro Ser Leu Glu Thr Val Leu Phe Ile Val Val
           20           25           30
Leu Ser Phe Tyr Met Val Ser Ile Leu Gly Asn Gly Ile Ile Ile Leu
           35           40           45
Val Ser His Thr Asp Val His Leu His Thr Pro Met Tyr Phe Phe Leu
           50           55           60
Ala Asn Leu Pro Phe Leu Asp Met Ser Phe Thr Thr Ser Ile Val Pro
65           70           75           80
Gln Leu Leu Ala Asn Leu Trp Gly Pro Gln Lys Thr Ile Ser Tyr Gly
           85           90           95
Gly Cys Val Val Gln Phe Tyr Ile Ser His Trp Leu Gly Ala Thr Glu
           100          105          110
Cys Val Leu Leu Ala Thr Met Ser Tyr Asp Arg Tyr Ala Ala Ile Cys
           115          120          125
Arg Pro Leu His Tyr Thr Val Ile Met His Pro Gln Leu Cys Leu Gly
130           135          140
Leu Ala Leu Ala Ser Trp Leu Gly Gly Leu Thr Thr Ser Met Val Gly
145           150          155          160
Ser Thr Leu Thr Met Leu Leu Pro Leu Cys Gly Asn Asn Cys Ile Asp
           165          170          175
His Phe Phe Cys Glu Met Pro Leu Ile Met Gln Leu Ala Cys Val Asp
           180          185          190
Thr Ser Leu Asn Glu Met Glu Met Tyr Leu Ala Ser Phe Val Phe Val
           195          200          205
Val Leu Pro Leu Gly Leu Ile Leu Val Ser Tyr Gly His Ile Ala Arg
210           215          220
Ala Val Leu Lys Ile Arg Ser Ala Glu Gly Arg Arg Lys Ala Phe Asn
225           230          235          240
Thr Cys Ser Ser His Val Ala Val Val Ser Leu Phe Tyr Gly Ser Ile
           245          250          255
Ile Phe Met Tyr Leu Gln Pro Ala Lys Ser Thr Ser His Glu Gln Gly
           260          265          270
Lys Phe Ile Ala Leu Phe Tyr Thr Val Val Thr Pro Ala Leu Asn Pro
           275          280          285
Leu Ile Tyr Thr Leu Arg Asn Thr Glu Val Lys Ser Ala Leu Arg His
290           295          300
Met Val Leu Glu Asn Cys Cys Gly Ser Ala Gly Lys Leu Ala Gln
305           310          315

```

<210> 1578

<211> 264

<212> PRT

<213> Unknown (H38g495 protein)

<220>

<223> Synthetic construct

<400> 1578

```

Met Met Val Leu Ser Ile Val Leu Thr Ser Leu Phe Gly Asn Ser Leu
 1           5           10           15
Met Ile Leu Leu Ile His Trp Asp His Arg Phe His Thr Pro Met Tyr
           20           25           30
Phe Leu Leu Ser Gln Leu Ser Leu Met Asp Val Met Leu Val Ser Thr
           35           40           45

```

Thr Val Pro Lys Met Ala Ala Asp Tyr Leu Thr Gly Ser Lys Ala Ile
 50 55 60
 Ser Arg Ala Gly Cys Gly Ala Gln Ile Phe Phe Leu Pro Thr Leu Gly
 65 70 75 80
 Gly Gly Glu Cys Phe Leu Leu Ala Ala Met Ala Tyr Asp Arg Tyr Ala
 85 90 95
 Ala Val Cys His Pro Leu Arg Tyr Pro Thr Leu Met Ser Trp Gln Leu
 100 105 110
 Cys Leu Arg Met Asn Leu Ser Cys Trp Leu Leu Gly Ala Ala Asp Gly
 115 120 125
 Leu Leu Gln Ala Val Ala Thr Leu Ser Phe Pro Tyr Cys Gly Ala His
 130 135 140
 Glu Ile Asp His Phe Phe Cys Glu Thr Pro Val Leu Val Arg Leu Ala
 145 150 155 160
 Cys Ala Asp Thr Ser Val Phe Glu Asn Ala Met Tyr Ile Cys Cys Val
 165 170 175
 Leu Met Leu Leu Val Pro Phe Ser Leu Ile Leu Ser Ser Tyr Gly Leu
 180 185 190
 Ile Leu Ala Ala Val Leu His Met Arg Ser Thr Glu Ala Arg Lys Lys
 195 200 205
 Ala Phe Ala Thr Cys Ser Ser His Val Ala Val Val Gly Leu Phe Tyr
 210 215 220
 Gly Ala Ala Ile Phe Thr Tyr Met Arg Pro Lys Ser His Arg Ser Thr
 225 230 235 240
 Asn His Asp Lys Val Val Ser Ala Phe Tyr Thr Met Phe Thr Pro Leu
 245 250 255
 Leu Asn Pro Leu Ile Tyr Ser Val
 260

<210> 1579

<211> 220

<212> PRT

<213> Unknown (H38g496 protein)

<220>

<223> Synthetic construct

<400> 1579

Asn Leu Ser Phe Leu Asp Leu Cys Phe Thr Ala Ser Ile Ala Pro Gln
 1 5 10 15
 Leu Leu Trp Asn Leu Gly Gly Pro Glu Lys Thr Ile Thr Tyr His Gly
 20 25 30
 Cys Val Ala Gln Leu Tyr Ile Tyr Met Met Leu Gly Ser Thr Glu Cys
 35 40 45
 Val Leu Leu Val Val Met Ser His Asp Arg Tyr Val Ala Val Cys Arg
 50 55 60
 Ser Leu His Tyr Met Ala Val Met Arg Pro His Leu Cys Leu Gln Leu
 65 70 75 80
 Val Thr Val Ala Trp Cys Cys Gly Phe Leu Asn Ser Phe Ile Met Cys
 85 90 95
 Pro Gln Thr Met Gln Leu Ser Arg Cys Gly Arg Arg Arg Val Asp His
 100 105 110
 Phe Leu Cys Glu Met Pro Ala Leu Ile Ala Met Ser Cys Glu Glu Thr
 115 120 125
 Met Leu Val Glu Ala Ile Thr Phe Ala Leu Gly Val Ala Leu Leu Leu
 130 135 140
 Val Pro Leu Ser Leu Ile Leu Ile Ser Tyr Gly Val Ile Ala Ala Ala
 145 150 155 160
 Val Leu Arg Met Lys Ser Ala Ala Gly Arg Lys Lys Ala Phe His Thr
 165 170 175
 Cys Ser Ser His Leu Thr Val Val Ser Leu Phe Tyr Gly Thr Ile Ile

| | | | | | |
|---|---|-----|-----|-----|-----|
| | 180 | | 185 | | 190 |
| Tyr Val Tyr | Leu Lys Pro Ala Asn Ser Tyr Ser Gln Asp Gln Gly Lys | | | | |
| | 195 | | 200 | | 205 |
| Phe Leu Thr Leu Phe Tyr Thr Ile Val Ile Pro Ser | | | | | |
| 210 | | 215 | | 220 | |

<210> 1580

<211> 312

<212> PRT

<213> Unknown (H38g497 protein)

<220>

<223> Synthetic construct

<400> 1580

| | | | | | |
|---|-----|-----|-----|--|-----|
| Met Glu Pro Leu Asn Arg Thr Glu Val Ser Glu Phe Phe Leu Lys Gly | | | | | |
| 1 | 5 | | 10 | | 15 |
| Phe Ser Gly Tyr Pro Ala Leu Glu His Leu Leu Phe Pro Leu Cys Ser | | | | | |
| | 20 | | 25 | | 30 |
| Ala Met Tyr Leu Val Thr Leu Leu Gly Asn Thr Ala Ile Met Ala Val | | | | | |
| | 35 | | 40 | | 45 |
| Ser Val Leu Asp Ile His Leu His Thr Pro Val Tyr Phe Phe Leu Gly | | | | | |
| | 50 | | 55 | | 60 |
| Asn Leu Ser Thr Leu Asp Ile Cys Tyr Thr Pro Thr Phe Val Pro Leu | | | | | |
| 65 | 70 | | 75 | | 80 |
| Met Leu Val His Leu Leu Ser Ser Arg Lys Thr Ile Ser Phe Ala Val | | | | | |
| | 85 | | 90 | | 95 |
| Cys Ala Ile Gln Met Cys Leu Ser Leu Ser Thr Gly Ser Thr Glu Cys | | | | | |
| | 100 | | 105 | | 110 |
| Leu Leu Leu Ala Ile Thr Ala Tyr Asp Arg Tyr Leu Ala Ile Cys Gln | | | | | |
| | 115 | | 120 | | 125 |
| Pro Leu Arg Tyr His Val Leu Met Ser His Arg Leu Cys Val Leu Leu | | | | | |
| | 130 | | 135 | | 140 |
| Met Gly Ala Ala Trp Val Leu Cys Leu Leu Lys Ser Val Thr Glu Met | | | | | |
| 145 | 150 | | 155 | | 160 |
| Val Ile Ser Met Arg Leu Pro Phe Cys Gly His His Val Val Ser His | | | | | |
| | 165 | | 170 | | 175 |
| Phe Thr Cys Lys Ile Leu Ala Val Leu Lys Leu Ala Cys Gly Asn Thr | | | | | |
| | 180 | | 185 | | 190 |
| Ser Val Ser Glu Asp Phe Leu Leu Ala Gly Ser Ile Leu Leu Leu Pro | | | | | |
| | 195 | | 200 | | 205 |
| Val Pro Leu Ala Phe Ile Cys Leu Ser Tyr Leu Leu Ile Leu Ala Thr | | | | | |
| | 210 | | 215 | | 220 |
| Ile Leu Arg Val Pro Ser Ala Ala Arg Cys Cys Lys Ala Phe Ser Thr | | | | | |
| 225 | 230 | | 235 | | 240 |
| Cys Leu Ala His Leu Ala Val Val Leu Leu Phe Tyr Gly Thr Ile Ile | | | | | |
| | 245 | | 250 | | 255 |
| Phe Met Tyr Leu Lys Pro Lys Ser Lys Glu Ala His Ile Ser Asp Glu | | | | | |
| | 260 | | 265 | | 270 |
| Val Phe Thr Val Leu Tyr Ala Met Val Thr Thr Met Leu Asn Pro Thr | | | | | |
| | 275 | | 280 | | 285 |
| Ile Tyr Ser Leu Arg Asn Lys Glu Val Lys Glu Ala Ala Arg Lys Val | | | | | |
| | 290 | | 295 | | 300 |
| Trp Gly Arg Ser Arg Ala Ser Arg | | | | | |
| 305 | | 310 | | | |

<210> 1581

<211> 314

<212> PRT

<213> Unknown (H38g498 protein)

<220>

<223> Synthetic construct

<400> 1581

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Met Glu Arg Gly Asn Trp Thr Leu Val Thr Glu Phe Ile Leu Val Gly
 1           5           10           15
Ile Pro Thr Thr Arg Ala Leu Gly Gly Leu Leu Phe Val Ile Phe Tyr
          20           25           30
Pro Ala Tyr Leu Val Thr Val Leu Gly Asn Thr Leu Ile Ile Leu
          35           40           45
Ile Leu Val Asp Tyr Arg Leu His Ser Pro Met Tyr Phe Phe Leu Ser
          50           55           60
Asn Leu Ser Phe Ser Glu Thr Leu Thr Ile Thr Cys Ala Val Pro Lys
          65           70           75           80
Met Leu Glu Gly Phe Pro Ser Glu Arg Lys Ser Ile Thr Ser Gly Glu
          85           90           95
Cys Ser Ala Gln Ser Tyr Phe Tyr Phe Leu Ser Gly Cys Thr Glu Phe
          100          105          110
Ile Pro Phe Ala Val Met Ser Tyr Asp Arg Tyr Val Ala Ile Cys Ser
          115          120          125
Pro Leu Gln Tyr Pro Ala Ile Met Thr Ser Ser Leu Cys Ala His Leu
          130          135          140
Val Ile Leu Ser Trp Val Gly Gly Phe Leu Leu Met Leu Pro Ser Thr
          145          150          155          160
Ile Leu Lys Ala Gly Leu Pro His Cys Gly Pro Asn Val Ile Glu His
          165          170          175
Phe Phe Cys Asp Ser Ala Pro Leu Leu His Leu Ala Cys Ala Asp Ile
          180          185          190
Arg Ala Ile Glu Leu Leu Asp Phe Leu Ser Ser Leu Val Leu Ile Leu
          195          200          205
Ser Ser Leu Ser Leu Thr Val Val Ser Tyr Val Tyr Ile Ile Ser Thr
          210          215          220
Ile Leu Lys Ile Pro Ser Gly Gln Gly Gln Arg Lys Ala Phe Ala Thr
          225          230          235          240
Cys Ala Ser His Phe Thr Val Val Ser Val Gly Tyr Gly Ile Ser Ile
          245          250          255
Phe Val Tyr Val His Pro Ser Gln Lys Ser Ser Leu His Leu Asn Lys
          260          265          270
Ile Leu Phe Ile Leu Ser Ser Ile Ile Thr Pro Leu Leu Asn Pro Phe
          275          280          285
Val Phe Ser Leu Trp Asn Glu Pro Met Lys Asp Ala Leu Lys Asp Ala
          290          295          300
Val Gly Arg Arg Thr Glu Leu Ala Gln Arg
          305          310

```

<210> 1582

<211> 309

<212> PRT

<213> Unknown (H38g499 protein)

<220>

<223> Synthetic construct

<400> 1582

```

Met Ala Asn Leu Thr Ile Val Thr Glu Phe Ile Leu Met Gly Phe Ser
 1           5           10           15
Thr Asn Lys Asn Met Cys Ile Leu His Ser Ile Leu Phe Leu Leu Ile
          20           25           30
Tyr Leu Cys Ala Leu Met Gly Asn Val Leu Ile Ile Met Ile Thr Thr
          35           40           45
Leu Asp His His Leu His Thr Pro Val Tyr Phe Phe Leu Lys Asn Leu

```

50 55 60
 Ser Phe Leu Asp Leu Cys Leu Ile Ser Val Thr Ala Pro Lys Ser Ile
 65 70 75 80
 Ala Asn Ser Leu Ile His Asn Asn Ser Ile Ser Phe Leu Gly Cys Val
 85 90 95
 Ser Gln Val Phe Leu Leu Leu Ser Ser Ala Ser Ala Glu Leu Leu Leu
 100 105 110
 Leu Thr Val Met Ser Phe Asp Arg Tyr Thr Ala Ile Cys His Pro Leu
 115 120 125
 His Tyr Asp Val Ile Met Asp Arg Ser Thr Cys Val Gln Arg Ala Thr
 130 135 140
 Val Ser Trp Leu Tyr Gly Gly Leu Ile Ala Val Met His Thr Ala Gly
 145 150 155 160
 Thr Phe Ser Leu Ser Tyr Cys Gly Ser Asn Met Val His Gln Phe Phe
 165 170 175
 Cys Asp Ile Pro Gln Leu Leu Ala Ile Ser Cys Ser Glu Asn Leu Ile
 180 185 190
 Arg Glu Ile Ala Leu Ile Leu Ile Asn Val Val Leu Asp Phe Cys Cys
 195 200 205
 Phe Ile Val Ile Ile Ile Thr Tyr Val His Val Phe Ser Thr Val Lys
 210 215 220
 Lys Ile Pro Ser Thr Glu Gly Gln Ser Lys Ala Tyr Ser Ile Cys Leu
 225 230 235 240
 Pro His Leu Leu Val Val Leu Phe Leu Ser Thr Gly Phe Ile Ala Tyr
 245 250 255
 Leu Lys Pro Ala Ser Glu Ser Pro Ser Ile Leu Asp Ala Val Ile Ser
 260 265 270
 Val Phe Tyr Thr Met Leu Pro Pro Thr Phe Asn Pro Ile Ile Tyr Ser
 275 280 285
 Leu Arg Asn Lys Ala Ile Lys Val Ala Leu Gly Met Leu Ile Lys Gly
 290 295 300
 Lys Leu Thr Lys Lys
 305

<210> 1583

<211> 314

<212> PRT

<213> Unknown (H38g500 protein)

<220>

<223> Synthetic construct

<400> 1583

Met Gly Asp Val Asn Gln Ser Val Ala Ser Asp Phe Ile Leu Val Gly
 1 5 10 15
 Leu Phe Ser His Ser Gly Ser Arg Gln Leu Leu Phe Ser Leu Val Ala
 20 25 30
 Val Met Phe Val Ile Gly Leu Leu Gly Asn Thr Val Leu Leu Phe Leu
 35 40 45
 Ile Arg Val Asp Ser Arg Leu His Thr Pro Met Tyr Phe Leu Leu Ser
 50 55 60
 Gln Leu Ser Leu Phe Asp Ile Gly Cys Pro Met Val Thr Ile Pro Lys
 65 70 75 80
 Met Ala Ser Asp Phe Leu Arg Gly Glu Gly Ala Thr Ser Tyr Gly Gly
 85 90 95
 Gly Ala Ala Gln Ile Phe Phe Leu Thr Leu Met Gly Val Ala Glu Gly
 100 105 110
 Val Leu Leu Val Leu Met Ser Tyr Asp Arg Tyr Val Ala Val Cys Gln
 115 120 125
 Pro Leu Gln Tyr Pro Val Leu Met Arg Arg Gln Val Cys Leu Leu Met
 130 135 140

Met Gly Ser Ser Trp Val Val Gly Val Leu Asn Ala Ser Ile Gln Thr
 145 150 155 160
 Ser Ile Thr Leu His Phe Pro Tyr Cys Ala Ser Arg Ile Val Asp His
 165 170 175
 Phe Phe Cys Glu Val Pro Ala Leu Leu Lys Leu Ser Cys Ala Asp Thr
 180 185 190
 Cys Ala Tyr Glu Met Ala Leu Ser Thr Ser Gly Val Leu Ile Leu Met
 195 200 205
 Leu Pro Leu Ser Leu Ile Ala Thr Ser Tyr Gly His Val Leu Gln Ala
 210 215 220
 Val Leu Ser Met Arg Ser Glu Glu Ala Arg His Lys Ala Val Thr Thr
 225 230 235 240
 Cys Ser Ser His Ile Thr Val Val Gly Leu Phe Tyr Gly Ala Ala Val
 245 250 255
 Phe Met Tyr Met Val Pro Cys Ala Tyr His Ser Pro Gln Gln Asp Asn
 260 265 270
 Val Val Ser Leu Phe Tyr Ser Leu Val Thr Pro Thr Leu Asn Pro Leu
 275 280 285
 Ile Tyr Ser Leu Arg Asn Pro Glu Val Trp Met Ala Leu Val Lys Val
 290 295 300
 Leu Ser Arg Ala Gly Leu Arg Gln Met Cys
 305 310

<210> 1584

<211> 312

<212> PRT

<213> Unknown (H38g501 protein)

<220>

<223> Synthetic construct

<400> 1584

Met Asp Leu Lys Asn Gly Ser Leu Val Thr Glu Phe Ile Leu Leu Gly
 1 5 10 15
 Phe Phe Gly Arg Trp Glu Leu Gln Ile Phe Phe Phe Val Thr Phe Ser
 20 25 30
 Leu Ile Tyr Gly Ala Thr Val Met Gly Asn Ile Leu Ile Met Val Thr
 35 40 45
 Val Thr Cys Arg Ser Thr Leu His Ser Pro Leu Tyr Phe Leu Leu Gly
 50 55 60
 Asn Leu Ser Phe Leu Asp Met Cys Leu Ser Thr Ala Thr Thr Pro Lys
 65 70 75 80
 Met Ile Ile Asp Leu Leu Thr Asp His Lys Thr Ile Ser Val Trp Gly
 85 90 95
 Cys Val Thr Gln Met Phe Phe Met His Phe Phe Gly Gly Ala Glu Met
 100 105 110
 Thr Leu Leu Ile Ile Met Ala Phe Asp Arg Tyr Val Ala Ile Cys Lys
 115 120 125
 Pro Leu His Tyr Arg Thr Ile Met Ser His Lys Leu Leu Lys Gly Phe
 130 135 140
 Ala Ile Leu Ser Trp Ile Ile Gly Phe Leu His Ser Ile Ser Gln Ile
 145 150 155 160
 Val Leu Thr Met Asn Leu Pro Phe Cys Gly His Asn Val Ile Asn Asn
 165 170 175
 Ile Phe Cys Asp Leu Pro Leu Val Ile Lys Leu Ala Cys Ile Glu Thr
 180 185 190
 Tyr Thr Leu Glu Leu Phe Val Ile Ala Asp Ser Gly Leu Leu Ser Phe
 195 200 205
 Thr Cys Phe Ile Leu Leu Leu Val Ser Tyr Ile Val Ile Leu Val Ser
 210 215 220
 Val Pro Lys Lys Ser Ser His Gly Leu Ser Lys Ala Leu Ser Thr Leu

```
<210> 1585
<211> 325
<212> PRT
<213> Unknown (H38g502 protein)
```

```
<220>
<223> Synthetic construct

<221> VARIANT
<222> (1)...(325)
<223> Xaa = Any Amino Acid
```

| <400> 1585 | | | | | | | | | | | | | | | | | | |
|------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|--|
| Met | Pro | Thr | Asp | Lys | Gln | Met | Glu | Lys | Gln | Asn | Gln | Ser | Met | Val | Pro | | | |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | | | | |
| Glu | Phe | Ile | Leu | Tyr | Gly | Ile | Gln | Lys | Ser | His | Glu | Leu | Gln | Ile | Phe | | | |
| | | | 20 | | | | | 25 | | | | | 30 | | | | | |
| Phe | Ile | Leu | Phe | Phe | His | Ser | Leu | His | Ile | Ala | Xaa | Leu | Ser | Asn | Leu | | | |
| | | | 35 | | | | 40 | | | | | 45 | | | | | | |
| Ile | Ile | Ile | Phe | Val | Val | Lys | Leu | Asp | Pro | Gln | Leu | His | Ser | Pro | Met | | | |
| | | | 50 | | | 55 | | | | | 60 | | | | | | | |
| Tyr | Phe | Leu | Leu | Ala | Asn | Leu | Ser | Ser | Thr | Asp | Met | Pro | Leu | Ala | Ser | | | |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 | | | |
| Phe | Ala | Thr | Pro | Lys | Lys | Ile | Asp | Asn | Val | Ile | Ser | Glu | Tyr | Arg | Thr | | | |
| | | | | 85 | | | | | 90 | | | | | 95 | | | | |
| Ile | Ser | Tyr | Glu | Gly | Cys | Met | Thr | Xaa | Arg | Phe | Phe | Leu | His | Phe | Leu | | | |
| | | | 100 | | | | | 105 | | | | | 110 | | | | | |
| Ser | Gly | Ser | Glu | Met | Val | Leu | Leu | Leu | Ala | Met | Ala | Ile | Asp | Arg | Xaa | | | |
| | | | 115 | | | | 120 | | | | | 125 | | | | | | |
| Phe | Ala | Ile | Cys | Lys | Pro | Leu | His | Tyr | Lys | Ser | Ile | Ala | Ser | Asp | Leu | | | |
| | 130 | | | | | 135 | | | | | 140 | | | | | | | |
| Leu | Leu | Ala | Ser | Trp | Thr | Met | Asp | Phe | Met | His | Thr | Met | Ser | Gln | Ile | | | |
| 145 | | | | | 150 | | | | | 155 | | | | | 160 | | | |
| Val | Leu | Thr | Val | Thr | Leu | Pro | Phe | Cys | Gly | Leu | Ser | Val | Val | Asp | Ile | | | |
| | | | | 165 | | | | | 170 | | | | | 175 | | | | |
| Phe | Val | Cys | Asp | Val | Ile | Cys | Leu | Val | Ile | Lys | Leu | Ala | Cys | Thr | Asp | | | |
| | | | 180 | | | | | 185 | | | | | 190 | | | | | |
| Thr | Tyr | Ile | Leu | Glu | Leu | Xaa | Val | Ile | Ala | Asp | Ser | Gly | Leu | Leu | Ser | | | |
| | | 195 | | | | 200 | | | | | | 205 | | | | | | |
| Leu | Leu | Cys | Phe | Met | Phe | Leu | Leu | Ile | Ser | Tyr | Ser | Thr | Val | Leu | Ile | | | |
| | 210 | | | | | 215 | | | | | 220 | | | | | | | |
| Ile | Ile | Xaa | His | His | Ser | Ser | Arg | Gly | Ser | Ser | Lys | Thr | Leu | Ser | Thr | | | |
| 225 | | | | | 230 | | | | | 235 | | | | | 240 | | | |
| Leu | Ser | Ala | His | Ile | Met | Val | Val | Val | Leu | Phe | Phe | Gly | Ala | Cys | Ile | | | |
| | | | | 245 | | | | | 250 | | | | | 255 | | | | |
| Phe | Thr | Cys | Glu | Arg | Pro | Phe | Ser | Thr | Val | Ser | Ile | Asp | Ser | Val | Phe | | | |
| | | | 260 | | | | | 265 | | | | | 270 | | | | | |
| Xaa | Thr | Ile | Phe | Ala | Pro | Leu | Leu | Asn | Pro | Ile | Ile | Tyr | Thr | Phe | Arg | | | |
| | | 275 | | | | | 280 | | | | | 285 | | | | | | |

Asn Asn Asp Met Lys Lys Ala Leu Arg Lys Met Lys Ile Asn Phe Val
 290 295 300
 Ser Ser Arg Ser Thr Xaa Xaa Leu Lys Tyr Tyr Asn His Xaa Lys His
 305 310 315 320
 His His Tyr Cys Cys
 325

<210> 1586
 <211> 312
 <212> PRT
 <213> Unknown (H38g503 protein)

<220>
 <223> Synthetic construct

<400> 1586
 Met Asp Glu Ala Asn His Ser Val Val Ser Glu Phe Val Phe Leu Gly
 1 5 10 15
 Leu Ser Asp Ser Arg Lys Ile Gln Leu Leu Leu Phe Leu Phe Phe Ser
 20 25 30
 Val Phe Tyr Val Ser Ser Leu Met Gly Asn Leu Leu Ile Val Leu Thr
 35 40 45
 Val Thr Ser Asp Pro Arg Leu Gln Ser Pro Met Tyr Phe Leu Leu Ala
 50 55 60
 Asn Leu Ser Ile Ile Asn Leu Val Phe Cys Ser Ser Thr Ala Pro Lys
 65 70 75 80
 Met Ile Tyr Asp Leu Phe Arg Lys His Lys Thr Ile Ser Phe Gly Gly
 85 90 95
 Cys Val Val Gln Ile Phe Phe Ile His Ala Val Gly Gly Thr Glu Met
 100 105 110
 Val Leu Leu Ile Ala Met Ala Phe Asp Arg Tyr Val Ala Ile Cys Lys
 115 120 125
 Pro Leu His Tyr Leu Thr Ile Met Asn Pro Gln Arg Cys Ile Leu Phe
 130 135 140
 Leu Val Ile Ser Trp Ile Ile Gly Ile Ile His Ser Val Ile Gln Leu
 145 150 155 160
 Ala Phe Val Val Asp Leu Leu Phe Cys Gly Pro Asn Glu Leu Asp Ser
 165 170 175
 Phe Phe Cys Asp Leu Pro Arg Phe Ile Lys Leu Ala Cys Ile Glu Thr
 180 185 190
 Tyr Thr Leu Gly Phe Met Val Thr Ala Asn Ser Gly Phe Ile Ser Leu
 195 200 205
 Ala Ser Phe Leu Ile Leu Ile Ile Ser Tyr Ile Phe Ile Leu Val Thr
 210 215 220
 Val Gln Lys Lys Ser Ser Gly Gly Ile Phe Lys Ala Phe Ser Met Leu
 225 230 235 240
 Ser Ala His Val Ile Val Val Val Leu Val Phe Gly Pro Leu Ile Phe
 245 250 255
 Phe Tyr Ile Phe Pro Phe Pro Thr Ser His Leu Asp Lys Phe Leu Ala
 260 265 270
 Ile Phe Asp Ala Val Ile Thr Pro Val Leu Asn Pro Val Ile Tyr Thr
 275 280 285
 Phe Arg Asn Lys Glu Met Met Val Ala Met Arg Arg Arg Cys Ser Gln
 290 295 300
 Phe Val Asn Tyr Ser Lys Ile Phe
 305 310

<210> 1587
 <211> 322
 <212> PRT
 <213> Unknown (H38g504 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(322)

<223> Xaa = Any Amino Acid

<400> 1587

```

Met Asn Arg Asp Asn Gln Ser Val Val Ser Glu Phe Val Leu Leu Gly
 1           5           10           15
Leu Ser Asn Ser Trp Glu Ile Lys Ile Phe Leu Phe Cys Phe Ser Cys
           20           25           30
Leu Phe Tyr Val Ser Gly Val Met Ala Asn Leu Ile Val Val Val Ile
 35           40           45
Val Thr Ser Asp Pro Tyr Leu His Ser Ser Leu Tyr Ile Leu Leu Ala
 50           55           60
Asn Leu Ser Val Ile Asp Leu Thr Phe Cys Ser Ile Ala Ala Arg Lys
 65           70           75           80
Met Ile Cys Asp Ile Phe Arg Lys Gln Lys Val Ile Ser Phe Trp Gly
           85           90           95
Cys Val Ala Gln Ile Phe Phe Ser His Ala Val Gly Gly Thr Glu Met
 100           105           110
Val Leu Leu Ile Ala Met Ala Phe Asp Arg Tyr Val Ala Val Cys Lys
 115           120           125
Pro Leu His Tyr Leu Thr Ile Met His Pro Arg Met Cys Ile Leu Ile
 130           135           140
Leu Val Ala Ser Trp Ala Ile Gly Leu Ile His Ser Leu Val Gln Leu
 145           150           155           160
Ser Phe Val Val Asn Leu Pro Phe Cys Gly Pro Asn Val Leu Asp Ser
           165           170           175
Phe Tyr Cys Asp Ile Pro Gln Leu Ile Lys Leu Ala Cys Thr Asn Thr
 180           185           190
Tyr Lys Leu Gln Phe Met Val Thr Ala Asn Ser Gly Phe Ile Ser Leu
 195           200           205
Ser Ala Phe Phe Leu Leu Ile Leu Ser Tyr Ile Phe Ile Leu Ala Thr
 210           215           220
Leu Gln Lys His Ser Ser Gly Gly Ser Ser Lys Ala Val Ser Thr Leu
 225           230           235           240
Ser Ala His Ile Thr Val Val Val Leu Phe Phe Gly Pro Leu Ile Phe
 245           250           255
Phe Tyr Val Trp Pro Ser Pro Pro Thr His Leu Asn Lys Phe Leu Ala
 260           265           270
Ile Phe Asp Ala Ile Phe Thr Pro Phe Leu Asn Pro Val Ile Tyr Thr
 275           280           285
Phe Arg Asn Arg Glu Met Lys Ile Ala Ile Arg Arg Val Phe Gly Gln
 290           295           300
Phe Met Gly Phe Arg Lys Thr Thr Xaa Val Ala Leu Leu Lys His Arg
 305           310           315           320
Ile Ser

```

<210> 1588

<211> 291

<212> PRT

<213> Unknown (H38g505 protein)

<220>

<223> Synthetic construct

<400> 1588

```

Met Val Gly Ala Asn His Ser Val Val Ser Glu Phe Val Phe Leu Gly
 1           5           10           15
Leu Thr Asn Ser Trp Glu Ile Arg Leu Leu Leu Leu Val Phe Ser Ser
          20           25           30
Met Phe Tyr Met Ala Ser Met Met Gly Asn Ser Leu Ile Leu Leu Thr
 35           40           45
Val Thr Ser Asp Pro His Leu His Ser Pro Met Tyr Phe Leu Leu Ala
 50           55           60
Asn Leu Ser Phe Ile Asp Leu Gly Val Ser Ser Val Thr Ser Pro Lys
65           70           75           80
Met Ile Tyr Asp Leu Phe Arg Lys His Glu Val Ile Ser Phe Gly Gly
          85           90           95
Cys Ile Ala Gln Ile Phe Phe Ile His Val Ile Gly Gly Val Glu Met
          100          105          110
Val Leu Leu Ile Ala Met Ala Phe Asp Arg Tyr Val Ala Ile Cys Lys
          115          120          125
Pro Leu Gln Tyr Leu Thr Ile Met Ser Pro Arg Met Cys Met Phe Phe
          130          135          140
Leu Val Ala Ala Trp Val Thr Gly Leu Ile His Ser Val Val Gln Leu
145          150          155          160
Val Phe Val Val Asn Leu Pro Phe Cys Gly Pro Asn Val Ser Asp Ser
          165          170          175
Phe Tyr Cys Asp Leu Pro Arg Phe Ile Lys Leu Ala Cys Thr Asp Ser
          180          185          190
Tyr Arg Leu Glu Phe Met Val Thr Ala Asn Ser Gly Phe Ile Ser Leu
          195          200          205
Gly Ser Phe Phe Ile Leu Ile Ile Ser Tyr Val Val Ile Ile Leu Thr
          210          215          220
Val Leu Lys His Ser Ser Ala Gly Leu Ser Lys Ala Leu Ser Thr Leu
225          230          235          240
Ser Ala His Val Ser Val Val Val Leu Phe Phe Gly Pro Leu Ile Phe
          245          250          255
Val Tyr Thr Trp Pro Ser Pro Ser Thr His Leu Asp Lys Phe Leu Ala
          260          265          270
Ile Phe Asp Ala Val Leu Thr Pro Val Leu Asn Pro Ile Ile Tyr Thr
          275          280          285
Phe Arg Asn
          290

```

<210> 1589

<211> 312

<212> PRT

<213> Unknown (H38g506 protein)

<220>

<223> Synthetic construct

<400> 1589

```

Met Asn Gly Met Asn His Ser Val Val Ser Glu Phe Val Phe Met Gly
 1           5           10           15
Leu Thr Asn Ser Arg Glu Ile Gln Leu Leu Leu Phe Val Phe Ser Leu
          20           25           30
Leu Phe Tyr Phe Ala Ser Met Met Gly Asn Leu Val Ile Val Phe Thr
          35           40           45
Val Thr Met Asp Ala His Leu His Ser Pro Met Tyr Phe Leu Leu Ala
          50           55           60
Asn Leu Ser Ile Ile Asp Met Ala Phe Cys Ser Ile Thr Ala Pro Lys
65           70           75           80
Met Ile Cys Asp Ile Phe Lys Lys His Lys Ala Ile Ser Phe Arg Gly
          85           90           95
Cys Ile Thr Gln Ile Phe Phe Ser His Ala Leu Gly Gly Thr Glu Met

```

```

      100      105      110
Val Leu Leu Ile Ala Met Ala Phe Asp Arg Tyr Met Ala Ile Cys Lys
      115      120      125
Pro Leu His Tyr Leu Thr Ile Met Ser Pro Arg Met Cys Leu Tyr Phe
      130      135      140
Leu Ala Thr Ser Ser Ile Ile Gly Leu Ile His Ser Leu Val Gln Leu
145      150      155      160
Val Phe Val Val Asp Leu Pro Phe Cys Gly Pro Asn Ile Phe Asp Ser
      165      170      175
Phe Tyr Cys Asp Leu Pro Arg Leu Leu Arg Leu Ala Cys Thr Asn Thr
      180      185      190
Gln Glu Leu Glu Phe Met Val Thr Val Asn Ser Gly Leu Ile Ser Val
      195      200      205
Gly Ser Phe Val Leu Leu Val Ile Ser Tyr Ile Phe Ile Leu Phe Thr
      210      215      220
Val Trp Lys His Ser Ser Gly Gly Leu Ala Lys Ala Leu Ser Thr Leu
225      230      235      240
Ser Ala His Val Thr Val Val Ile Leu Phe Phe Gly Pro Leu Met Phe
      245      250      255
Phe Tyr Thr Trp Pro Ser Pro Thr Ser His Leu Asp Lys Tyr Leu Ala
      260      265      270
Ile Phe Asp Ala Phe Ile Thr Pro Phe Leu Asn Pro Val Ile Tyr Thr
      275      280      285
Phe Arg Asn Lys Asp Met Lys Val Ala Met Arg Arg Leu Cys Ser Arg
      290      295      300
Leu Ala His Phe Thr Lys Ile Leu
305      310

```

<210> 1590

<211> 327

<212> PRT

<213> Unknown (H38g507 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(327)

<223> Xaa = Any Amino Acid

<400> 1590

```

Met Glu Gln Arg Lys Asn Val Thr Glu Phe Val Leu Val Gly Leu Thr
 1      5      10      15
Gln Ser Pro Gln Gly Gln Lys Ile Leu Phe Leu Val Phe Leu Ile
      20      25      30
Tyr Val Val Thr Met Val Gly Asn Ile Phe Ile Val Val Thr Val Val
      35      40      45
Val Ser Pro Thr Leu Gly Cys Pro Met Tyr Phe Phe Leu Gly Tyr Leu
      50      55      60
Ser Phe Met Asp Ala Val His Ser Thr Thr Val Thr Pro Asn Met Ile
      65      70      75      80
Ile Asp Leu Leu Tyr Glu Lys Lys Thr Ile Ser Phe Gln Ala Cys Ile
      85      90      95
Thr Gln Ile Phe Ile Gly His Leu Phe Gly Gly Ala Glu Ile Leu Leu
      100      105      110
Leu Val Val Met Ala Tyr Asp Gly Tyr Val Thr Ile Cys Lys Pro Leu
      115      120      125
His Tyr Leu Thr Ile Met Asn Gln Arg Val Cys Ile Leu Leu Leu Leu
      130      135      140
Leu Ala Trp Ala Gly Gly Phe Leu His Ala Val Val Gln Leu Leu Phe
145      150      155      160

```

Val Tyr Asn Leu Pro Phe Cys Gly Pro Asn Val Ile Asp His Phe Ile
 165 170 175
 Cys Asp Met Tyr Pro Leu Leu Lys Leu Ala Cys Thr Asp Thr Tyr Val
 180 185 190
 Thr Gly Leu Thr Val Val Ala Asn Asp Gly Ala Ile Cys Val Val Ile
 195 200 205
 Phe Met Leu Leu Leu Phe Ser Tyr Gly Val Ile Leu His Ser Leu Lys
 210 215 220
 Asn Leu Ser Gln Glu Gly Arg His Lys Ala Leu Ser Thr Cys Gly Ser
 225 230 235 240
 His Ile Thr Val Val Ile Leu Phe Phe Val Pro Cys Ile Phe Met Tyr
 245 250 255
 Val Arg Pro Pro Leu Thr Leu Pro Ile Asp Lys Ser Leu Thr Val Phe
 260 265 270
 Tyr Thr Val Ile Thr Pro Met Leu Asn Pro Leu Ile Tyr Thr Leu Arg
 275 280 285
 Asn Ala Glu Met Lys Asn Ala Met Lys Lys Leu Trp Thr Arg Lys Arg
 290 295 300
 Lys Xaa Gly Gly Asp Lys Cys Ile Ile Tyr Phe Gln Xaa Arg Val Ala
 305 310 315 320
 Pro Ser Arg Lys Ala Ile Cys
 325

<210> 1591

<211> 306

<212> PRT

<213> Unknown (H38g508 protein)

<220>

<223> Synthetic construct

<400> 1591

Met Asn Leu Lys Asn Gly Ser Leu Val Thr Glu Phe Ile Leu Leu Gly
 1 5 10 15
 Phe Phe Gly Arg Trp Glu Leu Gln Ile Phe Phe Val Thr Phe Ser
 20 25 30
 Leu Ile Tyr Gly Ala Thr Val Val Gly Asn Ile Leu Ile Met Val Thr
 35 40 45
 Val Thr Cys Ser Ser Thr Leu His Ser Pro Leu Tyr Phe Leu Leu Gly
 50 55 60
 Asn Leu Ser Phe Leu Asp Met Cys Leu Ser Thr Ala Thr Thr Pro Lys
 65 70 75 80
 Met Asp His Lys Thr Ile Ser Val Trp Gly Cys Val Thr Gln Lys Phe
 85 90 95
 Phe Met His Phe Phe Gly Ser Ala Glu Met Thr Leu Leu Ile Ile Met
 100 105 110
 Ala Phe Asp Arg Tyr Val Ala Ile Cys Lys Pro Leu His Tyr Arg Thr
 115 120 125
 Ile Met Ser His Lys Leu Leu Lys Gly Phe Ala Ile Leu Ser Trp Ile
 130 135 140
 Ile Gly Phe Leu His Ser Ile Ser Gln Ile Val Leu Thr Met Asn Leu
 145 150 155 160
 Pro Phe Cys Gly His Asn Val Ile Asn Asn Ile Phe Cys Asp Leu Pro
 165 170 175
 Leu Val Ile Lys Leu Ala Cys Ile Glu Thr Tyr Thr Leu Glu Leu Phe
 180 185 190
 Val Ile Ala Asp Ser Gly Leu Leu Ser Phe Thr Cys Phe Ile Leu Leu
 195 200 205
 Leu Val Ser Tyr Ile Val Ile Leu Val Ser Val Pro Lys Lys Ser Ser
 210 215 220
 His Gly Leu Ser Lys Ala Leu Ser Thr Leu Ser Ala His Ile Ile Val

```
<210> 1592
<211> 336
<212> PRT
<213> Unknown (H38g509 protein)
```

<220>
<223> Synthetic construct

```
<221> VARIANT
<222> (1)...(336)
<223> Xaa = Any Amino Acid
```

| <400> 1592 | | | | | | | | | | | | | | | |
|------------|-----|--------|---------|---------|-----|---------|---------|---------|--------|-----|-----|--------|---------|-----|---------|
| Ser 1 | Thr | Asp | Pro | Gln 5 | Asn | Leu | Thr | Asp | Val 10 | Ser | Ile | Phe | Leu 15 | Leu | Leu |
| Gly | Thr | Ser | Glu 20 | Asp | Pro | Glu | Xaa | Gln 25 | Pro | Val | Leu | Ala | Gly 30 | Leu | Phe |
| Leu | Ser | Met 35 | Cys | Leu | Val | Thr | Val 40 | Leu | Gly | Asn | Leu | Leu 45 | Ile | Ile | Leu |
| Ala | Val | Ser | Pro | Asp | Ser | His 55 | Leu | His | Thr | Pro | Met | Tyr 60 | Ile | Phe | Phe |
| Ser 65 | Asn | Leu | Ser | Leu | Pro | Asp 70 | Ile | Gly | Phe | Thr | Ser | Thr | Thr | Val | Pro 80 |
| Lys | Met | Thr | Val | Asp 85 | Ile | Gln | Ser | His | Ser | Arg | Val | Ile | Ser | Tyr | Ala 95 |
| Gly | Cys | Leu | Thr 100 | Gln | Met | Ser | Leu | Phe 105 | Ala | Ile | Phe | Gly | Gly 110 | Met | Glu |
| Glu | Asn | Met | Phe 115 | Leu | Ser | Val | Met | Ala 120 | Tyr | Asp | Arg | Phe | Val | Ala | Ile |
| Cys | His | Pro | Leu | Tyr | His | Ser 135 | Ala | Ile | Met | Asn | Pro | Cys | Phe | Cys | Gly |
| Phe 145 | Leu | Val | Leu | Leu | Ser | Phe 150 | Phe | Phe | Ser | Leu | Ser | Leu | Leu | Asp | Val 160 |
| Gln | Leu | Arg | Asn | Leu 165 | Ile | Ala | Leu | Gln | Met | Thr | Cys | Phe | Lys | Asp | Val 175 |
| Glu | Ile | Pro | Asn | Phe 180 | Phe | Trp | Asp | Pro | Ser | Gln | Leu | Pro | His | Leu | Ala |
| Cys | Cys | Asp | Thr | Phe | Thr | Asn | Asn 200 | Ile | Ile | Leu | Tyr | Phe | Pro | Ala | Ala |
| Ile | Phe | Gly | Phe | Leu | Pro | Ile | Leu 215 | Gly | Thr | Leu | Phe | Ser | Tyr | Tyr | Lys |
| Ile 225 | Val | Phe | Ser | Ile | Leu | Arg | Val | Ser | Ser | Ser | Gly | Gly | Lys | Tyr | Lys |
| Ala | Phe | Ser | Thr | Cys 245 | Val | Ser | His | Leu | Ser | Val | Val | Cys | Xaa | Phe | Tyr |
| Gly | Thr | Gly | Val | Gly | Gly | Tyr | Leu | Ser | Ser | Asp | Val | Ser | Ser | Ser | Pro |
| Arg | Lys | Ala | Ala | Val | Ala | Ser | Val | Met | Tyr | Thr | Val | Val | Thr | Pro | Met |

Leu Asn Pro Phe Ile Tyr Ser Leu Arg Asn Arg Asp Ile Lys Ser Val
 290 295 300
 Leu Arg Arg Pro His Ser Ser Thr Val Xaa Ser Xaa Tyr Leu Leu Ile
 305 310 315 320
 Cys Ser Ile Pro Phe Val Val Trp Val Lys Lys Gly Ser Lys Val Lys
 325 330 335

<210> 1593

<211> 319

<212> PRT

<213> Unknown (H38g510 protein)

<220>

<223> Synthetic construct

<400> 1593

Met Met Glu Ile Ala Asn Val Ser Ser Pro Glu Val Phe Val Leu Leu
 1 5 10 15
 Gly Phe Ser Thr Arg Pro Ser Leu Glu Thr Val Leu Phe Ile Val Val
 20 25 30
 Leu Ser Phe Tyr Met Val Ser Ile Leu Gly Asn Gly Ile Ile Leu
 35 40 45
 Val Ser His Thr Asp Val His Leu His Thr Pro Met Tyr Phe Phe Leu
 50 55 60
 Ala Asn Leu Pro Phe Leu Asp Met Ser Phe Thr Thr Ser Ile Val Pro
 65 70 75 80
 Gln Leu Leu Ala Asn Leu Trp Gly Pro Gln Lys Thr Ile Ser Tyr Gly
 85 90 95
 Gly Cys Val Val Gln Phe Tyr Ile Ser His Trp Leu Gly Ala Thr Glu
 100 105 110
 Cys Val Leu Leu Ala Thr Met Ser Tyr Asp Arg Tyr Ala Ala Ile Cys
 115 120 125
 Arg Pro Leu His Tyr Thr Val Ile Met His Pro Gln Leu Cys Leu Gly
 130 135 140
 Leu Ala Leu Ala Ser Trp Leu Gly Gly Leu Thr Thr Ser Met Val Gly
 145 150 155 160
 Ser Thr Leu Thr Met Leu Leu Pro Leu Cys Gly Asn Asn Cys Ile Asp
 165 170 175
 His Phe Phe Cys Glu Met Pro Leu Ile Met Gln Leu Ala Cys Val Asp
 180 185 190
 Thr Ser Leu Asn Glu Met Glu Met Tyr Leu Ala Ser Phe Val Phe Val
 195 200 205
 Val Leu Pro Leu Gly Leu Ile Leu Val Ser Tyr Gly His Ile Ala Arg
 210 215 220
 Ala Val Leu Lys Ile Arg Ser Ala Glu Gly Arg Arg Lys Ala Phe Asn
 225 230 235 240
 Thr Cys Ser Ser His Val Ala Val Val Ser Leu Phe Tyr Gly Ser Ile
 245 250 255
 Ile Phe Met Tyr Leu Gln Pro Ala Lys Ser Thr Ser His Glu Gln Gly
 260 265 270
 Lys Phe Ile Ala Leu Phe Tyr Thr Val Val Thr Pro Ala Leu Asn Pro
 275 280 285
 Leu Ile Tyr Thr Leu Arg Asn Thr Glu Val Lys Ser Ala Leu Arg His
 290 295 300
 Met Val Leu Glu Asn Cys Cys Gly Ser Ala Gly Lys Leu Ala Gln
 305 310 315

<210> 1594

<211> 304

<212> PRT

<213> Unknown (H38g511 protein)

<220>

<223> Synthetic construct

<400> 1594

```

Met Glu Arg Ala Asn His Ser Val Val Ser Glu Phe Ile Leu Leu Gly
 1           5           10           15
Leu Ser Lys Ser Gln Asn Leu Gln Ile Leu Phe Phe Leu Gly Phe Ser
          20           25           30
Val Val Phe Val Gly Ile Val Leu Gly Asn Leu Leu Ile Leu Val Thr
          35           40           45
Val Thr Phe Asp Ser Leu Leu His Thr Pro Met Tyr Phe Leu Leu Ser
          50           55           60
Asn Leu Ser Cys Ile Asp Met Ile Leu Ala Ser Phe Ala Thr Pro Lys
65           70           75           80
Met Ile Val Asp Phe Leu Arg Glu Arg Lys Thr Ile Ser Trp Trp Gly
          85           90           95
Cys Tyr Ser Gln Met Phe Phe Met His Leu Leu Gly Gly Ser Glu Met
          100          105          110
Met Leu Leu Val Ala Met Ala Ile Asp Arg Tyr Val Ala Ile Cys Lys
          115          120          125
Pro Leu His Tyr Met Thr Ile Met Ser Pro Arg Val Leu Thr Gly Leu
130          135          140
Leu Leu Ser Ser Tyr Ala Val Gly Phe Val His Ser Ser Ser Gln Met
145          150          155          160
Ala Phe Met Leu Thr Leu Pro Phe Cys Gly Pro Asn Val Ile Asp Ser
          165          170          175
Phe Phe Cys Asp Leu Pro Leu Val Ile Lys Leu Ala Cys Lys Asp Thr
          180          185          190
Tyr Ile Leu Gln Leu Leu Val Ile Ala Asp Ser Gly Leu Leu Ser Leu
          195          200          205
Val Cys Phe Leu Leu Leu Leu Val Ser Tyr Gly Val Ile Ile Phe Ser
          210          215          220
Val Arg Tyr Arg Ala Ala Ser Arg Ser Ser Lys Ala Phe Ser Thr Leu
225          230          235          240
Ser Ala His Ile Thr Val Val Thr Leu Phe Phe Ala Pro Cys Val Phe
          245          250          255
Ile Tyr Val Trp Pro Phe Ser Arg Tyr Ser Val Asp Lys Ile Leu Ser
          260          265          270
Val Phe Tyr Thr Ile Phe Thr Pro Leu Leu Asn Pro Ile Ile Tyr Thr
          275          280          285
Leu Arg Asn Gln Glu Val Lys Ala Ala Ile Lys Lys Arg Leu Cys Ile
          290          295          300

```

<210> 1595

<211> 321

<212> PRT

<213> Unknown (H38g512 protein)

<220>

<223> Synthetic construct

<400> 1595

```

Met Val Asn Leu Thr Ser Met Ser Gly Phe Leu Leu Met Gly Phe Ser
 1           5           10           15
Asp Glu Arg Lys Leu Gln Ile Leu His Ala Leu Val Phe Leu Val Thr
          20           25           30
Tyr Leu Leu Ala Leu Thr Gly Asn Leu Leu Ile Ile Thr Ile Ile Thr
          35           40           45
Val Asp Arg Arg Leu His Ser Pro Met Tyr Tyr Phe Leu Lys His Leu
          50           55           60

```

Ser Leu Leu Asp Leu Cys Phe Ile Ser Val Thr Val Pro Gln Ser Ile
 65 70 75 80
 Ala Asn Ser Leu Met Gly Asn Gly Tyr Ile Ser Leu Val Gln Cys Ile
 85 90 95
 Leu Gln Val Phe Phe Phe Ile Ala Leu Ala Ser Ser Glu Val Ala Ile
 100 105 110
 Leu Thr Val Met Ser Tyr Asp Arg Tyr Ala Ala Ile Cys Gln Pro Leu
 115 120 125
 His Tyr Glu Thr Ile Met Asp Pro Arg Ala Cys Arg His Ala Val Ile
 130 135 140
 Ala Val Trp Ile Ala Gly Gly Leu Ser Gly Leu Met His Ala Ala Ile
 145 150 155 160
 Asn Phe Ser Ile Pro Leu Cys Gly Lys Arg Val Ile His Gln Phe Phe
 165 170 175
 Cys Asp Val Pro Gln Met Leu Lys Leu Ala Cys Ser Tyr Glu Phe Ile
 180 185 190
 Asn Glu Ile Ala Leu Ala Ala Phe Thr Thr Ser Ala Ala Phe Ile Cys
 195 200 205
 Leu Ile Ser Ile Val Leu Ser Tyr Ile Arg Ile Phe Ser Thr Val Leu
 210 215 220
 Arg Ile Pro Ser Ala Glu Gly Arg Thr Lys Val Phe Ser Thr Cys Leu
 225 230 235 240
 Pro His Leu Phe Val Ala Thr Phe Phe Leu Ser Ala Ala Gly Phe Glu
 245 250 255
 Phe Leu Arg Leu Pro Ser Asp Ser Ser Ser Thr Val Asp Leu Val Phe
 260 265 270
 Ser Val Phe Tyr Thr Val Ile Pro Pro Thr Leu Asn Pro Val Ile Tyr
 275 280 285
 Ser Leu Arg Asn Asp Ser Met Lys Ala Ala Leu Arg Lys Met Leu Ser
 290 295 300
 Lys Glu Glu Leu Pro Gln Arg Lys Met Cys Leu Lys Ala Met Phe Lys
 305 310 315 320
 Leu

<210> 1596

<211> 310

<212> PRT

<213> Unknown (H38g513 protein)

<220>

<223> Synthetic construct

<400> 1596

Met Asp Pro Gln Asn Tyr Ser Leu Val Ser Glu Phe Val Leu His Gly
 1 5 10 15
 Leu Cys Thr Ser Arg His Leu Gln Asn Phe Phe Phe Ile Phe Phe
 20 25 30
 Gly Val Tyr Val Ala Ile Met Leu Gly Asn Leu Leu Ile Leu Val Thr
 35 40 45
 Val Ile Ser Asp Pro Cys Leu His Ser Ser Pro Met Tyr Phe Leu Leu
 50 55 60
 Gly Asn Leu Ala Phe Leu Asp Met Trp Leu Ala Ser Phe Ala Thr Pro
 65 70 75 80
 Lys Met Ile Arg Asp Phe Leu Ser Asp Gln Lys Leu Ile Ser Phe Gly
 85 90 95
 Gly Cys Met Ala Gln Ile Phe Phe Leu His Phe Thr Gly Gly Ala Glu
 100 105 110
 Met Val Leu Leu Val Ser Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys
 115 120 125
 Lys Pro Leu His Tyr Met Thr Leu Met Ser Trp Gln Thr Cys Ile Arg

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      130              135              140
Leu Val Leu Ala Ser Trp Val Val Gly Phe Val His Ser Ile Ser Gln
145              150              155              160
Val Ala Phe Thr Val Asn Leu Pro Tyr Cys Gly Pro Asn Glu Val Asp
      165              170              175
Ser Phe Phe Cys Asp Leu Pro Leu Val Ile Lys Leu Ala Cys Met Asp
      180              185              190
Thr Tyr Val Leu Gly Ile Ile Met Ile Ser Asp Ser Gly Leu Leu Ser
      195              200              205
Leu Ser Cys Phe Leu Leu Leu Leu Ile Ser Tyr Thr Val Ile Leu Leu
      210              215              220
Ala Ile Arg Gln Arg Ala Ala Gly Ser Thr Ser Lys Ala Leu Ser Thr
225              230              235              240
Cys Ser Ala His Ile Met Val Val Thr Leu Phe Phe Gly Pro Cys Ile
      245              250              255
Phe Val Tyr Val Arg Pro Phe Ser Arg Phe Ser Val Asp Lys Leu Leu
      260              265              270
Ser Val Phe Tyr Thr Ile Phe Thr Pro Leu Leu Asn Pro Ile Ile Tyr
      275              280              285
Thr Leu Arg Asn Glu Glu Met Lys Ala Ala Met Lys Lys Leu Gln Asn
      290              295              300
Arg Arg Val Thr Phe Gln
305              310

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<210> 1597

<211> 319

<212> PRT

<213> Unknown (H38g514 protein)

<220>

<223> Synthetic construct

<400> 1597

```

Met Glu Arg Lys Asn Gln Thr Ala Ile Thr Glu Phe Ile Ile Leu Gly
1      5      10      15
Phe Ser Asn Leu Asn Glu Leu Gln Phe Leu Leu Phe Thr Ile Phe Phe
      20      25      30
Leu Thr Tyr Phe Cys Thr Leu Gly Gly Asn Ile Leu Ile Ile Leu Thr
      35      40      45
Thr Val Thr Asp Pro His Leu His Thr Pro Met Tyr Tyr Phe Leu Gly
      50      55      60
Asn Leu Ala Phe Ile Asp Ile Cys Tyr Thr Thr Ser Asn Val Pro Gln
65      70      75      80
Met Met Val His Leu Leu Ser Lys Lys Lys Ser Ile Ser Tyr Val Gly
      85      90      95
Cys Val Val Gln Leu Phe Ala Phe Val Phe Phe Val Gly Ser Glu Cys
      100      105      110
Leu Leu Leu Ala Ala Met Ala Tyr Asp Arg Tyr Ile Ala Ile Cys Asn
      115      120      125
Pro Leu Arg Tyr Ser Val Ile Leu Ser Lys Val Leu Cys Asn Gln Leu
      130      135      140
Ala Ala Ser Cys Trp Ala Ala Gly Phe Leu Asn Ser Val Val His Thr
145      150      155      160
Val Leu Thr Phe Cys Leu Pro Phe Cys Gly Asn Asn Gln Ile Asn Tyr
      165      170      175
Phe Phe Cys Asp Ile Pro Pro Leu Leu Ile Leu Ser Cys Gly Asn Thr
      180      185      190
Ser Val Asn Glu Leu Ala Leu Leu Ser Thr Gly Val Phe Ile Gly Trp
      195      200      205
Thr Pro Phe Leu Cys Ile Val Leu Ser Tyr Ile Cys Ile Ile Ser Thr
      210      215      220

```

Ile Leu Arg Ile Gln Ser Ser Glu Gly Arg Arg Lys Ala Phe Ser Thr
 225 230 235 240
 Cys Ala Ser His Leu Ala Ile Val Phe Leu Phe Tyr Gly Ser Ala Ile
 245 250 255
 Phe Thr Tyr Val Arg Pro Ile Ser Thr Tyr Ser Leu Lys Lys Asp Arg
 260 265 270
 Leu Val Ser Val Leu Tyr Ser Val Val Thr Pro Met Leu Asn Pro Ile
 275 280 285
 Ile Tyr Thr Leu Arg Asn Lys Asp Ile Lys Glu Ala Val Lys Thr Ile
 290 295 300
 Gly Ser Lys Trp Gln Pro Pro Ile Ser Ser Leu Asp Ser Lys Leu
 305 310 315

<210> 1598

<211> 303

<212> PRT

<213> Unknown (H38g515 protein)

<220>

<223> Synthetic construct

<400> 1598

Met Arg Glu Phe Phe Leu Ser Gly Phe Ser Gln Thr Pro Ser Ile Glu
 1 5 10 15
 Ala Gly Leu Phe Val Leu Phe Leu Phe Phe Tyr Met Ser Ile Trp Val
 20 25 30
 Gly Asn Val Leu Ile Met Val Thr Val Ala Ser Asp Lys Tyr Leu Asn
 35 40 45
 Ser Ser Pro Met Tyr Phe Leu Leu Gly Asn Leu Ser Phe Leu Asp Leu
 50 55 60
 Cys Tyr Ser Thr Val Thr Thr Pro Lys Leu Leu Ala Asp Phe Phe Asn
 65 70 75 80
 His Glu Lys Leu Ile Ser Tyr Asp Gln Cys Ile Val Gln Leu Phe Phe
 85 90 95
 Leu His Phe Val Gly Ala Ala Glu Met Phe Leu Leu Thr Val Met Ala
 100 105 110
 Tyr Asp Arg Tyr Val Ala Ile Cys Arg Pro Leu His Tyr Thr Thr Val
 115 120 125
 Met Ser Arg Gly Leu Cys Cys Val Leu Val Ala Ala Ser Trp Met Gly
 130 135 140
 Gly Phe Val His Ser Thr Val Gln Thr Ile Leu Thr Val His Leu Pro
 145 150 155 160
 Phe Cys Gly Pro Asn Gln Val Glu Asn Phe Phe Cys Asp Val Pro Pro
 165 170 175
 Val Ile Lys Leu Ala Cys Ala Asp Thr Phe Val Ile Glu Leu Leu Met
 180 185 190
 Val Ser Asn Ser Gly Leu Ile Ser Thr Ile Ser Phe Val Val Leu Ile
 195 200 205
 Ser Ser Tyr Thr Thr Ile Leu Val Lys Ile Arg Ser Lys Glu Gly Arg
 210 215 220
 Arg Lys Ala Leu Ser Thr Cys Ala Ser His Leu Met Val Val Thr Leu
 225 230 235 240
 Phe Phe Gly Pro Cys Ile Phe Ile Tyr Ala Arg Pro Phe Ser Thr Phe
 245 250 255
 Ser Val Asp Lys Met Val Ser Val Leu Tyr Asn Val Ile Thr Pro Met
 260 265 270
 Leu Asn Pro Leu Ile Tyr Thr Leu Arg Asn Lys Glu Val Lys Ser Ala
 275 280 285
 Met Gln Lys Leu Trp Val Arg Asn Gly Leu Thr Trp Lys Lys Gln
 290 295 300

<210> 1599
 <211> 315
 <212> PRT
 <213> Unknown (H38g516 protein)

<220>
 <223> Synthetic construct

<400> 1599
 Met Glu Asn Val Thr Thr Met Asn Glu Phe Leu Leu Leu Gly Leu Thr
 1 5 10 15
 Gly Val Gln Glu Leu Gln Pro Phe Phe Phe Gly Ile Phe Leu Ile Ile
 20 25 30
 Tyr Leu Ile Asn Leu Ile Gly Asn Gly Ser Ile Leu Val Met Val Val
 35 40 45
 Leu Glu Pro Gln Leu His Ser Pro Met Tyr Phe Phe Leu Gly Asn Leu
 50 55 60
 Ser Cys Leu Asp Ile Ser Tyr Ser Ser Val Thr Leu Pro Lys Leu Leu
 65 70 75 80
 Val Asn Leu Val Cys Ser Arg Arg Ala Ile Ser Phe Leu Gly Cys Ile
 85 90 95
 Thr Gln Leu His Phe Phe His Phe Leu Gly Ser Thr Glu Ala Ile Leu
 100 105 110
 Leu Ala Ile Met Ala Phe Asp Arg Phe Val Ala Ile Cys Asn Pro Leu
 115 120 125
 Arg Tyr Thr Val Ile Met Asn Pro Gln Val Cys Ile Leu Leu Ala Ala
 130 135 140
 Ala Ala Trp Leu Ile Ser Phe Phe Tyr Ala Leu Met His Ser Val Met
 145 150 155 160
 Thr Ala His Leu Ser Phe Cys Gly Ser Gln Lys Leu Asn His Phe Phe
 165 170 175
 Tyr Asp Val Lys Pro Leu Leu Glu Leu Ala Cys Ser Asp Thr Leu Leu
 180 185 190
 Asn Gln Trp Leu Leu Ser Ile Val Thr Gly Ser Ile Ser Met Gly Ala
 195 200 205
 Phe Phe Leu Thr Leu Leu Ser Cys Phe Tyr Val Ile Gly Phe Leu Leu
 210 215 220
 Phe Lys Asn Arg Ser Cys Arg Ile Leu His Lys Ala Leu Ser Thr Cys
 225 230 235 240
 Ala Ser His Phe Met Val Val Cys Leu Phe Tyr Gly Pro Val Gly Phe
 245 250 255
 Thr Tyr Ile Arg Pro Ala Ser Ala Thr Ser Met Ile Gln Asp Arg Ile
 260 265 270
 Met Ala Ile Met Tyr Ser Ala Val Thr Pro Val Leu Asn Pro Leu Ile
 275 280 285
 Tyr Thr Leu Arg Asn Lys Glu Val Met Met Ala Leu Lys Lys Ile Phe
 290 295 300
 Gly Arg Lys Leu Phe Lys Asp Trp Gln Gln His
 305 310 315

<210> 1600
 <211> 322
 <212> PRT
 <213> Unknown (H38g517 protein)

<220>
 <223> Synthetic construct

<400> 1600
 Met Asn Glu Thr Asn His Ser Arg Val Thr Glu Phe Val Leu Leu Gly
 1 5 10 15

Leu Ser Ser Ser Arg Glu Leu Gln Pro Phe Leu Phe Leu Thr Phe Ser
 20 25 30
 Leu Leu Tyr Leu Ala Ile Leu Leu Gly Asn Phe Leu Ile Ile Leu Thr
 35 40 45
 Val Thr Ser Asp Ser Arg Leu His Thr Pro Met Tyr Phe Leu Leu Ala
 50 55 60
 Asn Leu Ser Phe Ile Asp Val Cys Val Ala Ser Phe Ala Thr Pro Lys
 65 70 75 80
 Met Ile Ala Asp Phe Leu Val Glu Arg Lys Thr Ile Ser Phe Asp Ala
 85 90 95
 Cys Leu Ala Gln Ile Phe Phe Val His Leu Phe Thr Gly Ser Glu Met
 100 105 110
 Val Leu Leu Val Ser Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Lys
 115 120 125
 Pro Leu His Tyr Met Thr Val Met Ser Arg Arg Val Cys Val Val Leu
 130 135 140
 Val Leu Ile Ser Trp Phe Val Gly Phe Ile His Thr Thr Ser Gln Leu
 145 150 155 160
 Ala Phe Thr Val Asn Leu Pro Phe Cys Gly Pro Asn Lys Val Asp Ser
 165 170 175
 Phe Phe Cys Asp Leu Pro Leu Val Thr Lys Leu Ala Cys Ile Asp Thr
 180 185 190
 Tyr Val Val Ser Leu Leu Ile Val Ala Asp Ser Gly Phe Leu Ser Leu
 195 200 205
 Ser Ser Phe Leu Leu Leu Val Val Ser Tyr Thr Val Ile Leu Val Thr
 210 215 220
 Val Arg Asn Arg Ser Ser Ala Ser Met Ala Lys Ala Arg Ser Thr Leu
 225 230 235 240
 Thr Ala His Ile Thr Val Val Thr Leu Phe Phe Gly Pro Cys Ile Phe
 245 250 255
 Ile Tyr Val Trp Pro Phe Ser Ser Tyr Ser Val Asp Lys Val Leu Ala
 260 265 270
 Val Phe Tyr Thr Ile Phe Thr Leu Ile Leu Asn Pro Val Ile Tyr Thr
 275 280 285
 Leu Arg Asn Lys Glu Val Lys Ala Ala Met Ser Lys Leu Lys Ser Arg
 290 295 300
 Tyr Leu Lys Pro Ser Gln Val Ser Val Val Ile Arg Asn Val Leu Phe
 305 310 315 320
 Leu Glu

<210> 1601

<211> 197

<212> PRT

<213> Unknown (H38g518 protein)

<220>

<223> Synthetic construct

<400> 1601

Glu Arg Leu Leu Leu Pro Met Tyr Cys Phe Leu Thr Ile Leu Ser Ala
 1 5 10 15
 Thr Asp Leu Gly Leu Ser Ile Ser Thr Leu Val Thr Met Leu Ser Ile
 20 25 30
 Phe Trp Phe Asn Val Arg Glu Ile Ser Phe Asn Ala Cys Leu Ser His
 35 40 45
 Met Phe Phe Ile Lys Phe Phe Thr Val Met Glu Ser Ser Val Leu Leu
 50 55 60
 Ala Met Ala Phe Asp Arg Phe Val Ala Val Ser Asn Pro Leu Arg Tyr
 65 70 75 80
 Ala Met Ile Leu Thr Asp Ser Arg Ile Ala Gln Ile Gly Val Ala Ser

```

      85          90          95
Val Ile Arg Gly Leu Leu Met Leu Thr Pro Met Val Ala Leu Leu Ile
      100          105          110
Arg Leu Ser Tyr Cys His Ser Arg Val Leu His His Ser Tyr Cys Tyr
      115          120          125
His Pro Asp Val Met Lys Phe Ser Cys Thr Asp Ala Arg Ile Asn Ser
      130          135          140
Ala Val Gly Leu Thr Ala Met Phe Ser Thr Val Gly Val Asp Leu Leu
      145          150          155          160
Leu Ile Leu Leu Ser Tyr Val Leu Ile Ile Arg Thr Val Leu Asn Val
      165          170          175
Ala Ser Pro Glu Glu Arg Arg Lys Pro Phe Ser Thr Cys Val Ser His
      180          185          190
Ile Gly Gly Phe Cys
      195

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<210> 1602

<211> 313

<212> PRT

<213> Unknown (H38g519 protein)

<220>

<223> Synthetic construct

<400> 1602

```

Met Ser Pro Glu Asn Gln Ser Ser Val Ser Glu Phe Leu Leu Leu Gly
  1          5          10          15
Leu Pro Ile Arg Pro Glu Gln Gln Ala Val Phe Phe Thr Leu Phe Leu
      20          25          30
Gly Met Tyr Leu Thr Thr Val Leu Gly Asn Leu Leu Ile Met Leu Leu
      35          40          45
Ile Gln Leu Asp Ser His Leu His Thr Pro Met Tyr Phe Phe Leu Ser
      50          55          60
His Leu Ala Leu Thr Asp Ile Ser Phe Ser Ser Val Thr Val Pro Lys
      65          70          75          80
Met Leu Met Asp Met Arg Thr Lys Tyr Lys Ser Ile Leu Tyr Glu Glu
      85          90          95
Cys Ile Ser Gln Met Tyr Phe Phe Ile Phe Phe Thr Asp Leu Asp Ser
      100          105          110
Phe Leu Ile Thr Ser Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys His
      115          120          125
Pro Leu His Tyr Thr Val Ile Met Arg Glu Glu Leu Cys Val Phe Leu
      130          135          140
Val Ala Val Ser Trp Ile Leu Ser Cys Ala Ser Ser Leu Ser His Thr
      145          150          155          160
Leu Leu Leu Thr Arg Leu Ser Phe Cys Ala Ala Asn Thr Ile Pro His
      165          170          175
Val Phe Cys Asp Leu Ala Ala Leu Leu Lys Leu Ser Cys Ser Asp Ile
      180          185          190
Phe Leu Asn Glu Leu Val Met Phe Thr Val Gly Val Val Val Ile Thr
      195          200          205
Leu Pro Phe Met Cys Ile Leu Val Ser Tyr Gly Tyr Ile Gly Ala Thr
      210          215          220
Ile Leu Arg Val Pro Ser Thr Lys Gly Ile His Lys Ala Leu Ser Thr
      225          230          235          240
Cys Gly Ser His Leu Ser Val Val Ser Leu Tyr Tyr Gly Ser Ile Phe
      245          250          255
Gly Gln Tyr Leu Phe Pro Thr Val Ser Ser Ser Ile Asp Lys Asp Val
      260          265          270
Ile Val Ala Leu Met Tyr Thr Val Val Thr Pro Met Leu Asn Pro Phe
      275          280          285

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Ile Tyr Ser Leu Arg Asn Arg Asp Met Lys Glu Ala Leu Gly Lys Leu
 290 295 300
 Phe Ser Arg Ala Thr Phe Phe Ser Trp
 305 310

<210> 1603
 <211> 196
 <212> PRT
 <213> Unknown (H38g520 protein)

<220>
 <223> Synthetic construct

<221> VARIANT
 <222> (1)...(196)
 <223> Xaa = Any Amino Acid

<400> 1603
 Arg Leu Leu Leu Pro Met Tyr Phe Phe Leu Gly Asn Leu Ser Leu Leu
 1 5 10 15
 Asp Leu Cys Leu Pro Ser Ile Pro Val Pro Lys Met Leu Gln Asn Leu
 20 25 30
 Leu Thr Gln Arg Xaa Thr Ile Ser Met Trp Tyr Cys Ile Val Gln Ser
 35 40 45
 Phe Phe Leu Ile Phe Ser Gly Ser Thr Glu Ala Cys Leu Leu Leu Ala
 50 55 60
 Met Ala Cys Asp His Ser Thr Ser Asn Cys His Pro Arg Leu Asn Asp
 65 70 75 80
 Val Val Met Asn Gln Pro Val Cys Val Arg Met Val Ile Ala Ala Trp
 85 90 95
 Ala Val Gly Phe Leu Asn Ser Leu Thr Lys Asn Leu Phe Ile Tyr Asn
 100 105 110
 Leu His Phe Cys Gly Pro Ser Val Ile Pro His Phe Cys Cys Glu Leu
 115 120 125
 Pro Ser Leu Phe Pro Leu Ser Cys Ile Asp Pro Ala Ala Ser Glu Val
 130 135 140
 Leu Pro Ala Gly Ser Cys Thr Leu Leu Gly Phe Val Thr Cys Arg Cys
 145 150 155 160
 Val Leu Phe Ser Tyr Ser Asn Thr Ile Ser Ala Val Leu Ala Ile Trp
 165 170 175
 Phe Ser Glu Gly Gln Gly Lys Ala Phe Ser Thr Cys Ser Ser His Leu
 180 185 190
 Thr Val Val Leu
 195

<210> 1604
 <211> 306
 <212> PRT
 <213> Unknown (H38g521 protein)

<220>
 <223> Synthetic construct

<400> 1604
 Met Ser Pro Glu Asn Gln Ser Ser Val Ser Glu Phe Leu Leu Leu Gly
 1 5 10 15
 Leu Pro Ile Arg Pro Glu Gln Gln Ala Val Phe Phe Ala Leu Phe Leu
 20 25 30
 Gly Met Tyr Leu Thr Thr Val Leu Gly Asn Leu Leu Ile Met Leu Leu
 35 40 45
 Ile Gln Leu Asp Ser His Leu His Thr Pro Met Tyr Phe Phe Leu Ser

50 55 60
 His Leu Ala Leu Thr Asp Ile Ser Phe Ser Ser Val Thr Val Pro Lys
 65 70 75 80
 Met Leu Met Asn Met Gln Thr Gln His Leu Ala Val Phe Tyr Lys Gly
 85 90 95
 Cys Ile Ser Gln Thr Tyr Phe Phe Ile Phe Phe Ala Asp Leu Asp Ser
 100 105 110
 Phe Leu Ile Thr Ser Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys His
 115 120 125
 Pro Leu His Tyr Ala Thr Ile Met Thr Gln Ser Gln Cys Val Met Leu
 130 135 140
 Val Ala Gly Ser Trp Val Ile Ala Cys Ala Cys Ala Leu Leu His Thr
 145 150 155 160
 Leu Leu Leu Ala Gln Leu Ser Phe Cys Ala Asp His Ile Ile Pro His
 165 170 175
 Tyr Phe Cys Asp Leu Gly Ala Leu Leu Lys Leu Ser Cys Ser Asp Thr
 180 185 190
 Ser Leu Asn Gln Leu Ala Ile Phe Thr Ala Ala Leu Thr Ala Ile Met
 195 200 205
 Leu Pro Phe Leu Cys Ile Leu Val Ser Tyr Gly His Ile Gly Val Thr
 210 215 220
 Ile Leu Gln Ile Pro Ser Thr Lys Gly Ile Cys Lys Ala Leu Ser Thr
 225 230 235 240
 Cys Gly Ser His Leu Ser Val Val Thr Ile Tyr Tyr Arg Thr Ile Ile
 245 250 255
 Gly Leu Tyr Phe Leu Pro Pro Ser Ser Asn Thr Asn Asp Lys Asn Ile
 260 265 270
 Ile Ala Ser Val Ile Tyr Thr Ala Val Thr Pro Met Leu Asn Pro Phe
 275 280 285
 Ile Tyr Ser Leu Arg Asn Lys Asp Ile Lys Gly Ala Leu Arg Lys Leu
 290 295 300
 Leu Ser
 305

<210> 1605

<211> 197

<212> PRT

<213> Unknown (H38g522 protein)

<220>

<223> Synthetic construct

<400> 1605

Leu Leu Leu Pro Met Tyr Phe Phe Leu Gly Asn Leu Ser Leu Met Asp
 1 5 10 15
 Ile Cys Gly Thr Ser Ser Phe Val Pro Leu Ile Leu Asp Asn Phe Leu
 20 25 30
 Glu Thr Gln Arg Thr Ile Ser Phe Pro Gly Cys Ala Leu Gln Met Tyr
 35 40 45
 Leu Thr Leu Ala Leu Gly Ser Thr Glu Cys Leu Leu Leu Ala Val Met
 50 55 60
 Ala Tyr Asp Arg Tyr Val Ala Ile Cys Gln Pro Leu Arg Tyr Pro Glu
 65 70 75 80
 Leu Met Ser Gly Gln Thr Cys Met Gln Met Ala Ala Leu Ser Trp Gly
 85 90 95
 Thr Gly Phe Ala Asn Ser Leu Leu Gln Ser Ile Leu Val Trp His Leu
 100 105 110
 Pro Phe Cys Gly His Val Ile Asn Tyr Phe Tyr Glu Ile Leu Ala Val
 115 120 125
 Leu Lys Leu Ala Cys Gly Asp Ile Ser Leu Asn Ala Leu Ala Leu Met
 130 135 140

Val Ala Thr Ala Val Leu Thr Leu Ala Pro Leu Leu Leu Ile Cys Leu
 145 150 155 160
 Ser Tyr Leu Phe Ile Leu Ser Ala Ile Leu Arg Val Pro Ser Ala Ala
 165 170 175
 Gly Arg Cys Lys Ala Phe Ser Thr Cys Ser Ala His Arg Thr Val Val
 180 185 190
 Val Val Phe Tyr Gly
 195

<210> 1606

<211> 328

<212> PRT

<213> Unknown (H38g523 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(328)

<223> Xaa = Any Amino Acid

<400> 1606

Val Asn Gly Trp Ser Asn Lys Ser Val Val Thr Glu Phe Asn Leu Leu
 1 5 10 15
 Gly Leu Ser Ser Ser Trp Glu Leu Gln Val Phe Phe Phe Phe Ile Phe
 20 25 30
 Ser Val Phe Tyr Gly Ala Ala Val Leu Gly Asn Ile Leu Ile Ile Ile
 35 40 45
 Thr Val Ile Ile Asp Ser His Leu His Ser Pro Met Tyr Phe Leu Leu
 50 55 60
 Ser Asn Leu Ser Ser Ile Asp Val Cys Gln Ala Thr Phe Ala Thr Pro
 65 70 75 80
 Lys Met Ile Ala Asp Phe Leu Asn Glu His Lys Thr Thr Thr Phe Gln
 85 90 95
 Gly Cys Met Ser Gln Ile Phe Phe Leu His Val Phe Gly Gly Ser Glu
 100 105 110
 Met Val Leu Leu Val Ala Met Ala Tyr Asp Arg Tyr Ile Ala Ile Cys
 115 120 125
 Lys Pro Leu His Tyr Met Thr Ile Met Asn Arg Arg Val Xaa Thr Val
 130 135 140
 Leu Val Gly Val Ser Trp Ala Ile Gly Ile Ser His Ser Ala Thr His
 145 150 155 160
 Leu Ala Phe Lys Val Asn Leu Pro Phe Cys Gly Pro Asn Arg Val Asp
 165 170 175
 Asn Phe Phe Cys Asp Leu Leu Leu Val Ile Lys Leu Ala Cys Leu Asp
 180 185 190
 Thr Tyr Gly Phe Glu Ile Leu Val Leu Thr Asn Ser Gly Leu Leu Ser
 195 200 205
 Leu Met Cys Phe Leu Leu Leu Ile Ser Asp Thr Ile Ile Leu Ala
 210 215 220
 Thr Val His Arg Gln Ala Ser Asp Gly Met Ser Lys Ala Leu Ser Thr
 225 230 235 240
 Leu Ser Ala His Ile Thr Val Val Leu Leu Phe Phe Gly Pro Leu Ile
 245 250 255
 Phe Ile Tyr Ile Trp Pro Phe Glu Ser Phe Pro Ile Asp Lys Phe Ile
 260 265 270
 Ser Val Phe Phe Thr Val Phe Thr Pro Leu Leu Asn Pro Met Ile Tyr
 275 280 285
 Thr Leu Arg Asn Lys Asp Ile Lys Glu Ala Met Arg Lys Leu Arg Arg
 290 295 300
 Xaa His Val Gly Ser Lys Gln Gly Phe Xaa Thr Thr Thr Lys Lys Xaa

320

<400> 1608

Tyr Tyr Tyr Tyr Pro Met Tyr Phe Phe Leu Cys Asn Leu Ser Phe Leu
 1 5 10 15
 Asp Met Ser Phe Thr Thr Ser Ile Val Pro Gln Leu Leu Ala Asn Leu
 20 25 30
 Trp Gly Pro Gln Lys Thr Ile Ser Tyr Gly Gly Cys Val Val Gln Phe
 35 40 45
 Tyr Ile Ser His Trp Leu Gly Ala Thr Glu Cys Val Leu Leu Ala Thr
 50 55 60
 Met Ser Tyr Asp Arg Tyr Ala Ala Ile Cys Arg Pro Leu His Tyr Thr
 65 70 75 80
 Val Ile Met His Pro Gln Leu Cys Leu Gly Leu Ala Leu Ala Ser Trp
 85 90 95
 Leu Gly Gly Leu Thr Thr Ser Met Val Gly Ser Thr Leu Thr Met Leu
 100 105 110
 Leu Pro Leu Cys Gly Asn Asn Cys Ile Asp His Phe Phe Cys Glu Met
 115 120 125
 Pro Leu Ile Met Gln Leu Ala Cys Val Asp Thr Ser Leu Asn Glu Met
 130 135 140
 Glu Met Tyr Leu Ala Ser Phe Val Phe Val Val Leu Pro Leu Gly Leu
 145 150 155 160
 Ile Leu Val Ser Tyr Gly His Ile Ala Glu Ala Gly Leu Lys Asn Lys
 165 170 175
 Ser Ala Glu Gly Arg Arg Lys Ala Phe Asn Thr Cys Ser Phe His Val
 180 185 190

<210> 1609

<211> 310

<212> PRT

<213> Unknown (H38g526 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(310)

<223> Xaa = Any Amino Acid

<400> 1609

Met Asp Ile Arg Asn Ser Ser Ile Ile Thr Glu Phe Val Leu Leu Glu
 1 5 10 15
 Phe Ile Ser Thr Trp Glu Leu Glu Ile Leu Phe Leu Ile Ile Phe Leu
 20 25 30
 Leu Ala Tyr Ala Ala Ile Met Ala Gly Asn Leu Thr Ala Ile Ala Val
 35 40 45
 Thr Ser Asn Pro Pro Leu Cys Ser Thr Pro Met Tyr Phe Leu Leu Gly
 50 55 60
 Asn Leu Ser Phe Leu Ser Met Phe Ile Ser Thr Val Thr Ile Ser Lys
 65 70 75 80
 Met Val Leu Asp Val Leu Arg Glu Asn Lys Thr Thr Ser Ser Trp Gly
 85 90 95
 Cys Met Ala Gln Met Leu His Phe Leu Gly Gly Ser Glu Met Thr Leu
 100 105 110
 Leu Ile Phe Met Ala Val Asp Gln His Ile Ala Ile Cys Arg Pro Leu
 115 120 125
 His Cys Arg Thr Ile Thr Asn Cys Arg Val Leu Met Ala Thr His Gly
 130 135 140
 Leu Cys Val Leu Ser Arg Ala Val Gly Phe Val His Thr Ile Ser Gln
 145 150 155 160
 Ile Val Phe Ile Ile Thr Leu Pro Phe Cys Gly Pro Ser Val Val Asp
 165 170 175
 Asn Leu Phe Xaa Asp Leu Pro Leu Val Leu Lys Leu Ala Cys Thr Glu

```

      180      185      190
Thr Tyr Asp Leu Glu Leu Leu Val Ile Ala Lys Ser Gly Gln Leu Ser
      195      200      205
Phe Ile Cys Phe Ile Val Leu Leu Ile Phe Tyr Thr Ile Ile Leu Val
      210      215      220
Thr Val Gln His Arg Ser Ser Asp Ala Leu Ser Lys Ala Leu Ser Thr
225      230      235
Leu Ser Ala His Ile Thr Ala Val Thr Leu Phe Phe Glu Pro Cys Val
      245      250      255
Tyr Ile Tyr Thr Trp Pro Phe Arg Ser Phe Ser Val Asp Thr Phe Leu
      260      265      270
Ser Val Phe Tyr Ser Val Thr Pro Leu Leu Asn Pro Ile Thr Tyr Ser
      275      280      285
Leu Arg Xaa Lys His Ala Ile His Gln Leu Arg Thr Gln His Ile Ile
      290      295      300
Ser Arg Gln Thr Phe Ser
305      310

```

<210> 1610
 <211> 198
 <212> PRT
 <213> Unknown (H38g527 protein)

<220>
 <223> Synthetic construct

```

<400> 1610
Leu Leu Leu Pro Met Tyr Phe Phe Leu Cys Asn Leu Ser Leu Val Asp
 1      5      10      15
Phe Gly Tyr Ser Ser Ala Val Thr Pro Lys Val Met Val Gly Phe Leu
      20      25      30
Thr Gly Asp Lys Phe Ile Leu Tyr Asn Ala Cys Ala Thr Gln Phe Phe
      35      40      45
Phe Phe Val Ala Phe Ile Thr Ala Glu Ser Phe Leu Leu Ala Ser Met
      50      55      60
Ala Tyr Asp Arg Tyr Ala Ala Leu Cys Lys Pro Leu His Tyr Thr Thr
65      70      75      80
Thr Met Thr Thr Asn Val Cys Ala Arg Leu Ala Ile Gly Ser Tyr Ile
      85      90      95
Cys Gly Phe Leu Asn Ala Ser Ile His Thr Gly Asn Thr Phe Arg Leu
      100      105      110
Ser Phe Cys Arg Ser Asn Val Val Glu His Phe Phe Cys Asp Ala Pro
      115      120      125
Pro Leu Leu Thr Leu Ser Cys Ser Asp Asn Tyr Ile Ser Glu Met Val
      130      135      140
Ile Phe Phe Val Val Gly Phe Asn Asp Leu Phe Ser Ile Leu Val Ile
145      150      155      160
Leu Ile Ser Tyr Leu Phe Ile Phe Ile Thr Ile Met Lys Met Arg Ser
      165      170      175
Pro Glu Gly Arg Gln Lys Ala Phe Ser Thr Cys Ala Ser His Leu Thr
      180      185      190
Ala Val Ser Ile Phe Tyr
      195

```

<210> 1611
 <211> 315
 <212> PRT
 <213> Unknown (H38g528 protein)

<220>
 <223> Synthetic construct

<400> 1611
 Met Glu Ala Met Lys Leu Leu Asn Gln Ser Gln Val Ser Glu Phe Ile
 1 5 10 15
 Leu Leu Gly Leu Thr Ser Ser Gln Asp Val Glu Phe Leu Leu Phe Ala
 20 25 30
 Leu Phe Ser Val Ile Tyr Val Val Thr Val Leu Gly Asn Leu Leu Ile
 35 40 45
 Ile Val Thr Val Phe Asn Thr Pro Asn Leu Asn Thr Pro Met Tyr Phe
 50 55 60
 Leu Leu Gly Asn Leu Ser Phe Val Asp Met Thr Leu Ala Ser Phe Ala
 65 70 75 80
 Thr Pro Lys Val Ile Leu Asn Leu Leu Lys Lys Gln Lys Val Ile Ser
 85 90 95
 Phe Ala Gly Cys Phe Thr Gln Ile Phe Leu Leu His Leu Leu Gly Gly
 100 105 110
 Val Glu Met Val Leu Leu Val Ser Met Ala Phe Asp Arg Tyr Val Ala
 115 120 125
 Ile Cys Lys Pro Leu His Tyr Met Thr Ile Met Asn Lys Lys Val Cys
 130 135 140
 Val Leu Leu Val Val Thr Ser Trp Leu Leu Gly Leu Leu His Ser Gly
 145 150 155 160
 Phe Gln Ile Pro Phe Ala Val Asn Leu Pro Phe Cys Gly Pro Asn Val
 165 170 175
 Val Asp Ser Ile Phe Cys Asp Leu Pro Leu Val Thr Lys Leu Ala Cys
 180 185 190
 Ile Asp Ile Tyr Phe Val Gln Val Val Ile Val Ala Asn Ser Gly Ile
 195 200 205
 Ile Ser Leu Ser Cys Phe Ile Ile Leu Leu Ile Ser Tyr Ser Leu Ile
 210 215 220
 Leu Ile Thr Ile Lys Asn His Ser Pro Thr Gly Gln Ser Lys Ala Arg
 225 230 235 240
 Ser Thr Leu Thr Ala His Ile Thr Val Val Ile Leu Phe Phe Gly Pro
 245 250 255
 Cys Ile Phe Ile Tyr Ile Trp Pro Phe Gly Asn His Ser Val Asp Lys
 260 265 270
 Phe Leu Ala Val Phe Tyr Thr Ile Ile Thr Pro Ile Leu Asn Pro Ile
 275 280 285
 Ile Tyr Thr Leu Arg Asn Lys Glu Met Lys Ile Ser Met Lys Lys Leu
 290 295 300
 Trp Arg Ala Phe Val Asn Ser Arg Glu Asp Thr
 305 310 315

<210> 1612

<211> 317

<212> PRT

<213> Unknown (H38g529 protein)

<220>

<223> Synthetic construct

<400> 1612

Met Glu Pro Gln Asn Thr Ser Thr Val Thr Asn Phe Gln Leu Leu Gly
 1 5 10 15
 Phe Gln Asn Leu Leu Glu Trp Gln Ala Leu Leu Phe Val Ile Phe Leu
 20 25 30
 Leu Ile Tyr Cys Leu Thr Ile Ile Gly Asn Val Val Ile Ile Thr Val
 35 40 45
 Val Ser Gln Gly Leu Arg Leu His Ser Pro Met Tyr Met Phe Leu Gln
 50 55 60
 His Leu Ser Phe Leu Glu Val Trp Tyr Thr Ser Thr Thr Val Pro Leu

```

65          70          75          80
Leu Leu Ala Asn Leu Leu Ser Trp Gly Gln Ala Ile Ser Phe Ser Ala
      85          90          95
Cys Met Ala Gln Leu Tyr Phe Phe Val Phe Leu Gly Ala Thr Glu Cys
      100          105          110
Phe Leu Leu Ala Phe Met Ala Tyr Asp Arg Tyr Leu Ala Ile Cys Ser
      115          120          125
Pro Leu Arg Tyr Pro Phe Leu Met His Arg Gly Leu Cys Ala Arg Leu
      130          135          140
Val Val Val Ser Trp Cys Thr Gly Val Ser Thr Gly Phe Leu His Ser
      145          150          155          160
Met Met Ile Ser Arg Leu Asp Phe Cys Gly Arg Asn Gln Ile Asn His
      165          170          175
Phe Phe Cys Asp Leu Pro Pro Leu Met Gln Leu Ser Cys Ser Arg Val
      180          185          190
Tyr Ile Thr Glu Val Thr Ile Phe Ile Leu Ser Ile Ala Val Leu Cys
      195          200          205
Ile Cys Phe Phe Leu Thr Leu Gly Pro Tyr Val Phe Ile Val Ser Ser
      210          215          220
Ile Leu Arg Ile Pro Ser Thr Ser Gly Arg Arg Lys Thr Phe Ser Thr
      225          230          235          240
Cys Gly Ser His Leu Ala Val Val Thr Leu Tyr Tyr Gly Thr Met Ile
      245          250          255
Ser Met Tyr Val Cys Pro Ser Pro His Leu Leu Pro Glu Ile Asn Lys
      260          265          270
Ile Ile Ser Val Phe Tyr Thr Val Val Thr Pro Leu Leu Asn Pro Val
      275          280          285
Ile Tyr Ser Leu Arg Asn Lys Asp Phe Lys Glu Ala Val Arg Lys Val
      290          295          300
Met Arg Arg Lys Cys Gly Ile Leu Trp Ser Thr Ser Lys
      305          310          315

```

<210> 1613

<211> 335

<212> PRT

<213> Unknown (H38g530 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(335)

<223> Xaa = Any Amino Acid

<400> 1613

```

Ser Thr Asp Pro Gln Asn Leu Thr Asp Val Ser Ile Phe Leu Leu Leu
1          5          10          15
Gly Ser Ser Glu Asp Pro Glu Trp Gln Pro Val Leu Thr Gly Leu Cys
      20          25          30
Leu Ser Met Cys Leu Val Thr Val Leu Gly Asn Leu Leu Ile Ile Leu
      35          40          45
Ala Val Ser Pro Asp Ser His Leu His Ile Pro Met Tyr Phe Phe Leu
      50          55          60
Ser Asn Leu Ser Leu Pro Asp Ile Gly Phe Thr Ser Thr Thr Val Pro
      65          70          75          80
Lys Met Ile Val Asp Ile Gln Ser His Ser Arg Val Ile Ser Tyr Ala
      85          90          95
Gly Cys Leu Thr Gln Met Ser Leu Phe Ala Ile Phe Gly Gly Met Glu
      100          105          110
Glu Asn Met Leu Leu Ser Val Ile Ala Tyr Glu Arg Phe Val Ala Ile
      115          120          125

```


Cys His Pro Leu Tyr His Ser Ala Ile Met Asn Pro Cys Phe Cys Gly
 130 135 140
 Phe Leu Val Leu Leu Ser Phe Phe Phe Leu Ser Leu Leu Asp Ala Gln
 145 150 155 160
 Leu His Asn Leu Ile Ala Leu Gln Arg Thr Cys Phe Lys Asp Val Glu
 165 170 175
 Ile Pro Asn Phe Phe Trp Asp Pro Ser Gln Leu Pro His Leu Ala Tyr
 180 185 190
 Cys Gly Thr Phe Thr Asn Asn Ile Ile Met Tyr Phe Pro Ala Ala Ile
 195 200 205
 Phe Gly Phe Leu Pro Ile Ser Gly Thr Leu Phe Ser Tyr Asp Lys Ile
 210 215 220
 Val Phe Ser Ile Leu Arg Val Ser Ser Ser Gly Gly Lys Tyr Lys Ala
 225 230 235 240
 Phe Ser Thr Cys Gly Ser His Leu Ser Val Val Cys Xaa Phe Tyr Gly
 245 250 255
 Thr Gly Ile Gly Gly Tyr Leu Ser Ser Asp Val Ser Ser Ser Pro Arg
 260 265 270
 Lys Ala Ala Val Ala Ser Val Met Tyr Thr Val Val Ile Pro Met Pro
 275 280 285
 Asn Pro Phe Ile Tyr Ser Leu Arg Asn Arg Asp Met Lys Ser Val Leu
 290 295 300
 Gln Arg Pro His Gly Ser Thr Ile Ser Ser Gln Tyr Leu Leu Ile Cys
 305 310 315 320
 Ser Ile Pro Phe Val Val Trp Val Lys Lys Gly Ser Lys Val Lys
 325 330 335

<210> 1614

<211> 330

<212> PRT

<213> Unknown (H38g531 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(330)

<223> Xaa = Any Amino Acid

<400> 1614

His Thr Glu Pro Gln Asn Leu Thr Gly Ile Xaa Glu Phe Leu Leu Leu
 1 5 10 15
 Gly Leu Ser Glu Asp Pro Glu Leu Gln Pro Val Leu Ala Gly Leu Ser
 20 25 30
 Leu Ser Met Tyr Leu Val Thr Val Leu Arg Asn Leu Leu Ser Thr Leu
 35 40 45
 Ala Val Ser Ser Asp Ser Pro Leu His Thr Pro Met Tyr Phe Phe Leu
 50 55 60
 Ser Asn Leu Cys Trp Ala Asp Ile Gly Phe Thr Leu Ala Ile Val Pro
 65 70 75 80
 Lys Met Thr Val Asp Met Gln Ser His Ser Arg Val Ile Ser His Ala
 85 90 95
 Gly Cys Leu Thr Gln Met Ser Phe Leu Val Leu Phe Ala Cys Ile Glu
 100 105 110
 Asp Met Phe Leu Thr Val Met Ala Tyr Asp Arg Phe Val Ala Ile Cys
 115 120 125
 Arg Pro Leu Tyr Tyr Pro Val Ile Ile Asn Pro His Leu Cys Val Phe
 130 135 140
 Phe Val Leu Val Ser Phe Phe Leu Ser Leu Leu Asp Ser Gln Leu His
 145 150 155 160
 Ser Trp Ile Val Xaa Gln Phe Thr Phe Ser Lys Asn Val Glu Ile Ser

```

      165      170      175
Asn Phe Val Cys Glu Pro Ser Gln Leu Leu Tyr Leu Ala Cys Ser Asp
      180      185      190
Ser Ile Ile Asn Ser Ile Phe Ile Tyr Phe Asp Ser Thr Met Phe Gly
      195      200      205
Phe Leu Pro Ile Ser Arg Ile Leu Leu Ser Tyr Tyr Lys Ile Val Pro
      210      215      220
Ser Ile Leu Arg Ile Ser Ser Ser Asp Gly Lys Tyr Lys Ala Phe Thr
225      230      235      240
Thr Cys Gly Ser His Leu Ala Val Val Cys Leu Phe Asp Gly Thr Gly
      245      250      255
Ile Gly Met Tyr Leu Thr Ser Ala Val Ala Pro Pro Pro Arg Asn Gly
      260      265      270
Val Val Ala Ser Val Met Tyr Ala Val Val Thr Pro Met Leu Asn Pro
      275      280      285
Phe Ile Tyr Ser Leu Arg Asn Arg Asp Ile Gln Asn Thr Leu Trp Arg
      290      295      300
Leu Arg Ser Arg Arg Val Glu Ser His Asp Leu Phe His Pro Phe Phe
305      310      315      320
Val Trp Val Arg Lys Gly Asn His Ile Lys
      325      330

```

<210> 1615

<211> 335

<212> PRT

<213> Unknown (H38g532 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(335)

<223> Xaa = Any Amino Acid

<400> 1615

```

Ser Thr Asp Pro Gln Asn Leu Ile Asp Val Phe Val Phe Leu Leu Leu
 1      5      10      15
Gly Thr Ser Glu Asp Pro Glu Arg Gln Leu Val Leu Ala Gly Leu Phe
      20      25      30
Leu Ser Met Cys Leu Val Thr Val Leu Gly Asn Leu Leu Ile Ile Leu
      35      40      45
Ala Val Ser Pro Asp Ser His Leu His Thr Pro Met Tyr Phe Phe Leu
      50      55      60
Ser Asn Leu Ser Leu Pro Asp Ile Gly Phe Thr Ser Thr Thr Val Pro
      65      70      75      80
Lys Leu Ile Val Asp Ile Gln Ser Tyr Ser Arg Val Ile Ser Tyr Ala
      85      90      95
Gly Cys Leu Thr Gln Thr Ser Leu Phe Ala Ile Phe Gly Gly Met Glu
      100      105      110
Glu Asn Met Leu Leu Ser Val Met Val Tyr Asp Arg Phe Val Ala Ile
      115      120      125
Cys His Pro Leu Tyr His Ser Ala Val Met Asn Pro Cys Phe Cys Gly
      130      135      140
Phe Leu Val Leu Leu Ser Phe Phe Phe Leu Ser Leu Leu Asp Ala Gln
      145      150      155      160
Leu His Asn Leu Ile Ala Leu Gln Met Thr Cys Phe Lys Asp Val Glu
      165      170      175
Ile Pro Asn Phe Phe Trp Asp Pro Ser Gln Leu Pro His Leu Ala Cys
      180      185      190
Cys Asp Thr Phe Thr Asn Asn Ile Ile Met Tyr Phe Pro Ala Ala Ile
      195      200      205

```

Phe Gly Phe Leu Pro Ile Ser Gly Thr Leu Phe Ser Tyr Tyr Glu Ile
 210 215 220
 Val Ser Ser Ile Leu Arg Val Ser Ser Xaa Gly Gly Lys Tyr Lys Ala
 225 230 235 240
 Phe Ala Thr Cys Gly Ser His Leu Ser Val Val Cys Xaa Phe Tyr Gly
 245 250 255
 Thr Gly Val Gly Gly Tyr Leu Ser Ser Asp Val Ser Ser Ser Pro Arg
 260 265 270
 Lys Ala Ala Val Ala Ser Val Met Tyr Thr Val Val Thr Pro Met Leu
 275 280 285
 Asn Pro Phe Ile Tyr Ser Leu Arg Asn Arg Asp Thr Lys Ser Val Leu
 290 295 300
 Arg Arg Pro His Gly Ser Thr Val Xaa Ser Xaa Tyr Leu Leu Ile Cys
 305 310 315 320
 Ser Ile Pro Phe Val Val Trp Val Lys Lys Gly Arg Lys Val Lys
 325 330 335

<210> 1616

<211> 320

<212> PRT

<213> Unknown (H38g533 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(320)

<223> Xaa = Any Amino Acid

<400> 1616

His Thr Glu Pro Arg His Leu Thr Gly Val Xaa Glu Phe Leu Leu Leu
 1 5 10 15
 Gly Leu Ser Glu Asp Pro Glu Leu Gln Pro Val Leu Ala Gly Leu Ser
 20 25 30
 Leu Ser Met Tyr Leu Val Thr Val Leu Arg Asn Leu Leu Ile Ile Leu
 35 40 45
 Ala Val Ser Ser Asp Ser His Leu His Thr Pro Met Tyr Phe Phe Leu
 50 55 60
 Ser Asn Leu Cys Trp Ala Asp Ile Ser Phe Thr Ser Ala Thr Val Pro
 65 70 75 80
 Lys Met Thr Val Asp Met Gln Ser His Ser Arg Val Ile Ser Tyr Ala
 85 90 95
 Gly Cys Leu Thr Arg Met Ser Phe Phe Val Leu Phe Ala Cys Ile Glu
 100 105 110
 Asp Met Leu Leu Thr Val Met Ala Xaa Asp Cys Phe Val Ala Ile Cys
 115 120 125
 Arg Pro Leu His Tyr Ala Val Ile Val Asn Pro His Leu Cys Val Phe
 130 135 140
 Leu Val Leu Val Ser Phe Phe Leu Ser Leu Leu Asp Ser Gln Leu His
 145 150 155 160
 Ser Xaa Ile Val Leu Gln Phe Thr Phe Phe Lys Asn Val Glu Ile Ser
 165 170 175
 His Phe Val Cys Glu Pro Ser Gln Leu Leu Asn Leu Ala Cys Ser Asp
 180 185 190
 Ser Phe Ile Asn Ser Ile Phe Met Tyr Phe Asp Ser Thr Met Phe Gly
 195 200 205
 Phe Leu Pro Ile Ser Gly Ile Leu Leu Ser Tyr Tyr Lys Ile Val Pro
 210 215 220
 Ser Ile Leu Arg Ile Ser Ser Ser Asp Gly Lys Tyr Lys Ala Phe Ser
 225 230 235 240
 Thr Cys Gly Ser His Leu Ala Val Val Cys Leu Phe Tyr Gly Thr Gly

```

                245                250                255
Ile Gly Val Tyr Leu Thr Ser Ala Val Ala Pro Pro Pro Ser Asn Gly
                260                265                270
Val Val Ala Ser Val Lys Tyr Thr Val Val Thr Pro Met Leu Asn Pro
                275                280                285
Phe Ile Tyr Ser Leu Arg Asn Arg Asp Ile Gln Ser Thr Leu Trp Arg
                290                295                300
Leu Cys Ser Arg Thr Val Lys Ser Leu Asp Leu Phe His Ser Phe Ser
305                310                315                320

```

<210> 1617

<211> 327

<212> PRT

<213> Unknown (H38g534 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(327)

<223> Xaa = Any Amino Acid

<400> 1617

```

Ile Ser Leu Leu Phe Trp Val Leu Leu Leu Val Ile Ser Arg Val Leu
1          5          10          15
Val Ala Met Ala Xaa Gly Asn Ser Thr Glu Val Thr Glu Phe Cys Leu
                20          25          30
Leu Gly Phe Gly Ala Xaa Gln Glu Phe Trp Cys Ile Leu Phe Ile Ile
35          40          45
Phe Leu Leu Ile Tyr Val Thr Ser Ile Met Gly Asn Ser Gly Ile Ile
50          55          60
Leu Leu Ile Asn Thr Asp Ser Arg Phe Gln Thr Pro Met Tyr Phe Phe
65          70          75          80
Leu Gln His Leu Ala Phe Val Asp Ile Cys Tyr Thr Ser Ala Ile Thr
85          90          95
Pro Lys Met Leu Gln Ser Phe Thr Glu Lys Asn Leu Ile Ser Phe
100          105          110
Trp Gly Cys Met Ile Gln Leu Leu Val Tyr Ala Thr Phe Ala Thr Ser
115          120          125
Asp Cys Tyr Leu Leu Ala Met Ile Ala Val Asp His Tyr Val Ala Ile
130          135          140
Cys Lys Pro Leu His Tyr Thr Val Ile Thr Ser Gln Thr Val Cys Ile
145          150          155          160
His Leu Val Ala Gly Ser Tyr Ile Met Gly Ser Ile Asn Ala Ser Val
165          170          175
His Thr Gly Phe Ala Phe Ser Leu Ser Phe Cys Lys Ser Asn Asn Ile
180          185          190
Asn His Phe Phe Cys Asp Gly Pro Pro Ile Leu Ala Leu Ser Cys Ser
195          200          205
Asn Ile Asp Ile Asn Ile Met Leu Leu Val Val Phe Val Gly Phe Asn
210          215          220
Leu Met Phe Thr Gly Leu Val Val Ile Phe Ser Tyr Ile Tyr Ile Met
225          230          235          240
Ala Thr Ile Leu Lys Met Ser Ser Ser Ala Gly Arg Lys Lys Ser Phe
245          250          255
Ser Thr Cys Ala Ser His Leu Thr Thr Val Ala Ile Phe Tyr Gly Thr
260          265          270
Leu Ser Tyr Met His Leu Gln Ser His Ser Asn Asn Ser Gln Glu Asn
275          280          285
Met Lys Val Ala Ser Ile Phe Tyr Gly Thr Val Ile Pro Met Leu Asn
290          295          300

```

Pro Leu Ile Tyr Ser Leu Arg Asn Lys Glu Val Lys Glu Ala Leu Lys
 305 310 315 320
 Leu Ile Gly Lys Lys Phe Phe
 325

<210> 1618
 <211> 309
 <212> PRT
 <213> Unknown (H38g535 protein)

<220>
 <223> Synthetic construct

<400> 1618
 Met Thr Leu Gly Asn Ser Thr Glu Val Thr Glu Phe Tyr Leu Leu Gly
 1 5 10 15
 Phe Gly Ala Gln His Glu Phe Trp Cys Ile Leu Phe Ile Val Phe Leu
 20 25 30
 Leu Ile Tyr Val Thr Ser Ile Met Gly Asn Ser Gly Ile Ile Leu Leu
 35 40 45
 Ile Asn Thr Asp Ser Arg Phe Gln Thr Leu Thr Tyr Phe Phe Leu Gln
 50 55 60
 His Leu Ala Phe Val Asp Ile Cys Tyr Thr Ser Ala Ile Thr Pro Lys
 65 70 75 80
 Met Leu Gln Ser Phe Thr Glu Glu Lys Asn Leu Met Leu Phe Gln Gly
 85 90 95
 Cys Val Ile Gln Phe Leu Val Tyr Ala Thr Phe Ala Thr Ser Asp Cys
 100 105 110
 Tyr Leu Leu Ala Met Met Ala Val Asp Pro Tyr Val Ala Ile Cys Lys
 115 120 125
 Pro Leu His Tyr Thr Val Ile Met Ser Arg Thr Val Cys Ile Arg Leu
 130 135 140
 Val Ala Gly Ser Tyr Ile Met Gly Ser Ile Asn Ala Ser Val Gln Thr
 145 150 155 160
 Gly Phe Thr Cys Ser Leu Ser Phe Cys Lys Ser Asn Ser Ile Asn His
 165 170 175
 Phe Phe Cys Asp Val Pro Pro Ile Leu Ala Leu Ser Cys Ser Asn Val
 180 185 190
 Asp Ile Asn Ile Met Leu Leu Val Val Phe Val Gly Ser Asn Leu Ile
 195 200 205
 Phe Thr Gly Leu Val Val Ile Phe Ser Tyr Ile Tyr Ile Met Ala Thr
 210 215 220
 Ile Leu Lys Met Ser Ser Ser Ala Gly Arg Lys Lys Ser Phe Ser Thr
 225 230 235 240
 Cys Ala Ser His Leu Thr Ala Val Thr Ile Phe Tyr Gly Thr Leu Ser
 245 250 255
 Tyr Met Tyr Leu Gln Ser His Ser Asn Asn Ser Gln Glu Asn Met Lys
 260 265 270
 Val Ala Phe Ile Phe Tyr Gly Thr Val Ile Pro Met Leu Asn Pro Leu
 275 280 285
 Ile Tyr Ser Leu Arg Asn Lys Glu Val Lys Glu Ala Leu Lys Val Ile
 290 295 300
 Gly Lys Lys Leu Phe
 305

<210> 1619
 <211> 298
 <212> PRT
 <213> Unknown (H38g536 protein)

<220>

<223> Synthetic construct

<400> 1619

```

Met Gly Arg Gly Asn Ser Thr Glu Val Thr Glu Phe His Leu Leu Gly
 1           5           10           15
Phe Gly Val Gln His Glu Phe Gln His Val Leu Phe Ile Val Leu Leu
           20           25           30
Leu Ile Tyr Val Thr Ser Leu Ile Gly Asn Ile Gly Met Ile Leu Leu
           35           40           45
Ile Lys Thr Asp Ser Arg Leu Gln Thr Pro Met Tyr Phe Phe Pro Gln
           50           55           60
His Leu Ala Phe Val Asp Ile Cys Tyr Thr Ser Ala Ile Thr Pro Lys
           65           70           75           80
Met Leu Gln Ser Phe Thr Glu Glu Asn Asn Leu Ile Thr Phe Arg Gly
           85           90           95
Cys Val Ile Gln Phe Leu Val Tyr Ala Thr Phe Ala Thr Ser Asp Cys
           100          105          110
Tyr Leu Leu Ala Ile Met Ala Met Asp Cys Tyr Val Ala Ile Cys Lys
           115          120          125
Pro Leu Arg Tyr Pro Met Ile Met Ser Gln Thr Val Tyr Ile Gln Leu
           130          135          140
Val Ala Gly Ser Tyr Ile Ile Gly Ser Ile Asn Ala Ser Val His Thr
           145          150          155          160
Gly Phe Thr Phe Ser Leu Ser Phe Cys Lys Ser Asn Lys Ile Asn His
           165          170          175
Phe Phe Cys Asp Gly Leu Pro Ile Leu Ala Leu Ser Cys Ser Asn Ile
           180          185          190
Asp Ile Asn Ile Ile Leu Asp Val Val Phe Val Gly Phe Asp Leu Met
           195          200          205
Phe Thr Glu Leu Val Ile Ile Phe Ser Tyr Ile Tyr Ile Met Val Thr
           210          215          220
Ile Leu Lys Met Ser Ser Thr Ala Gly Arg Lys Lys Ser Phe Ser Thr
           225          230          235          240
Cys Ala Ser His Leu Thr Ala Val Thr Ile Phe Tyr Gly Thr Leu Ser
           245          250          255
Tyr Met Tyr Leu Gln Pro Gln Ser Asn Asn Ser Gln Glu Asn Met Lys
           260          265          270
Val Ala Ser Ile Phe Tyr Gly Thr Val Ile Pro Met Leu Asn Pro Leu
           275          280          285
Ile Tyr Ser Leu Arg Asn Lys Glu Gly Lys
           290          295

```

<210> 1620

<211> 148

<212> PRT

<213> Unknown (H38g537 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(148)

<223> Xaa = Any Amino Acid

<400> 1620

```

Thr Tyr Asp Gly Ala Arg Ala Gly Leu Cys Ile Val Ser Tyr Asn Thr
 1           5           10           15
Cys Lys Ser Thr Met Met Ser Ile Lys Ile Gln Leu Lys Tyr Met Xaa
           20           25           30
Xaa Lys Xaa Leu Leu Ile Tyr Ala Gly Val Tyr Leu Asn Val Thr Met
           35           40           45

```

Leu Ile Val Thr Phe Lys Tyr Thr His Ile Phe His His Pro Glu Leu
 50 55 60
 Ala Leu Cys Tyr Val Ser Phe Ser Ala Val Val Phe His Leu Thr Ala
 65 70 75 80
 Val Thr Ile Phe Phe Gly Ala Leu Ser Tyr Met Asp Leu Gln Pro Glu
 85 90 95
 Ser Thr Val Phe Gln Glu Gln Glu Lys Pro Ala Ser Ile Phe Cys Gly
 100 105 110
 Ile Met Thr Leu Val Leu Asn Phe Leu Ile Tyr Cys Leu Xaa Asn Xaa
 115 120 125
 Glu Val Lys Glu Ala Leu Gln Leu Thr Arg Lys Lys Tyr Xaa Tyr Met
 130 135 140
 Xaa Thr Glu Gly
 145

<210> 1621

<211> 296

<212> PRT

<213> Unknown (H38g538 protein)

<220>

<223> Synthetic construct

<400> 1621

Met Leu Val Ser Gln Glu Gln Pro Leu Leu Phe Gly Ile Phe Leu
 1 5 10 15
 Gly Met Tyr Leu Val Thr Met Val Gly Asn Leu Leu Ile Ile Leu Ala
 20 25 30
 Ile Ser Ser Asp Pro His Leu His Thr Pro Met Tyr Phe Phe Leu Ala
 35 40 45
 Asn Leu Ser Leu Thr Asp Ala Cys Phe Thr Ser Ala Ser Ile Pro Lys
 50 55 60
 Met Leu Ala Asn Ile His Thr Gln Ser Gln Ile Ser Tyr Ser Gly
 65 70 75 80
 Cys Leu Ala Gln Leu Tyr Phe Leu Leu Met Phe Gly Gly Leu Asp Asn
 85 90 95
 Cys Leu Leu Ala Val Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Gln
 100 105 110
 Pro Leu His Tyr Ser Thr Ser Met Ser Pro Gln Leu Cys Ala Leu Met
 115 120 125
 Leu Gly Val Cys Trp Val Leu Thr Asn Cys Pro Ala Leu Met His Thr
 130 135 140
 Leu Leu Leu Thr Arg Val Ala Phe Cys Ala Gln Lys Ala Ile Pro His
 145 150 155 160
 Phe Tyr Cys Asp Pro Ser Ala Leu Leu Lys Leu Ala Cys Ser Asp Thr
 165 170 175
 His Val Asn Glu Leu Met Ile Ile Thr Met Gly Leu Leu Phe Leu Thr
 180 185 190
 Val Pro Leu Leu Leu Ile Val Phe Ser Tyr Val Arg Ile Phe Trp Ala
 195 200 205
 Val Phe Val Ile Ser Ser Pro Gly Gly Arg Trp Lys Ala Phe Ser Thr
 210 215 220
 Cys Gly Ser His Leu Thr Val Val Leu Leu Phe Tyr Gly Ser Leu Met
 225 230 235 240
 Gly Val Tyr Leu Leu Pro Pro Ser Thr Tyr Ser Thr Glu Arg Glu Ser
 245 250 255
 Arg Ala Ala Val Leu Tyr Met Val Ile Ile Pro Thr Leu Asn Pro Phe
 260 265 270
 Ile Tyr Ser Leu Arg Asn Arg Asp Met Lys Glu Ala Leu Gly Lys Leu
 275 280 285
 Phe Val Ser Gly Lys Thr Phe Phe

290

295

<210> 1622
 <211> 313
 <212> PRT
 <213> Unknown (H38g539 protein)

<220>
 <223> Synthetic construct

<400> 1622
 Met Lys Arg Glu Asn Gln Ser Ser Val Ser Glu Phe Leu Leu Leu Asp
 1 5 10 15
 Leu Pro Ile Trp Pro Glu Gln Gln Ala Val Phe Phe Thr Leu Phe Leu
 20 25 30
 Gly Met Tyr Leu Ile Thr Val Leu Gly Asn Leu Leu Ile Ile Leu Leu
 35 40 45
 Ile Arg Leu Asp Ser His Leu His Thr Pro Met Phe Phe Phe Leu Ser
 50 55 60
 His Leu Ala Leu Thr Asp Ile Ser Leu Ser Ser Val Thr Val Pro Lys
 65 70 75 80
 Met Leu Leu Ser Met Gln Thr Gln Asp Gln Ser Ile Leu Tyr Ala Gly
 85 90 95
 Cys Val Thr Gln Met Tyr Phe Phe Ile Phe Phe Thr Asp Leu Asp Asn
 100 105 110
 Phe Leu Leu Thr Ser Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys His
 115 120 125
 Pro Leu Arg Tyr Thr Thr Ile Met Lys Glu Gly Leu Cys Asn Leu Leu
 130 135 140
 Val Thr Val Ser Trp Ile Leu Ser Cys Thr Asn Ala Leu Ser His Thr
 145 150 155 160
 Leu Leu Leu Ala Gln Leu Ser Phe Cys Ala Asp Asn Thr Ile Pro His
 165 170 175
 Phe Phe Cys Asp Leu Val Ala Leu Leu Lys Leu Ser Cys Ser Asp Ile
 180 185 190
 Ser Leu Asn Glu Leu Val Ile Phe Thr Val Gly Gln Ala Val Ile Thr
 195 200 205
 Leu Pro Leu Ile Cys Ile Leu Ile Ser Tyr Gly His Ile Gly Val Thr
 210 215 220
 Ile Leu Lys Ala Pro Ser Thr Lys Gly Ile Phe Lys Ala Leu Ser Thr
 225 230 235 240
 Cys Gly Ser His Leu Ser Val Val Ser Leu Tyr Tyr Gly Thr Ile Ile
 245 250 255
 Gly Leu Tyr Phe Leu Pro Ser Ser Ser Ala Ser Ser Asp Lys Asp Val
 260 265 270
 Ile Ala Ser Val Met Tyr Thr Val Ile Thr Pro Leu Leu Asn Pro Phe
 275 280 285
 Ile Tyr Ser Leu Arg Asn Arg Asp Ile Lys Gly Ala Leu Glu Arg Leu
 290 295 300
 Phe Asn Arg Ala Thr Val Leu Ser Gln
 305 310

<210> 1623
 <211> 311
 <212> PRT
 <213> Unknown (H38g540 protein)

<220>
 <223> Synthetic construct

<400> 1623

Met Glu Asn Gln Ser Ser Ile Ser Glu Phe Phe Leu Arg Gly Ile Ser
 1 5 10 15
 Ala Pro Pro Glu Gln Gln Gln Ser Leu Phe Gly Ile Phe Leu Cys Met
 20 25 30
 Tyr Leu Val Thr Leu Thr Gly Asn Leu Leu Ile Ile Leu Ala Ile Gly
 35 40 45
 Ser Asp Leu His Leu His Thr Pro Met Tyr Phe Phe Leu Ala Asn Leu
 50 55 60
 Ser Phe Val Asp Met Gly Leu Thr Ser Ser Thr Val Thr Lys Met Leu
 65 70 75 80
 Val Asn Ile Gln Thr Arg His His Thr Ile Ser Tyr Thr Gly Cys Leu
 85 90 95
 Thr Gln Met Tyr Phe Phe Leu Met Phe Gly Asp Leu Asp Ser Phe Phe
 100 105 110
 Leu Ala Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys His Pro Leu
 115 120 125
 Cys Tyr Ser Thr Val Met Arg Pro Gln Val Cys Ala Leu Met Leu Ala
 130 135 140
 Leu Cys Trp Val Leu Thr Asn Ile Val Ala Leu Thr His Thr Phe Leu
 145 150 155 160
 Met Ala Arg Leu Ser Phe Cys Val Thr Gly Glu Ile Ala His Phe Phe
 165 170 175
 Cys Asp Ile Thr Pro Val Leu Lys Leu Ser Cys Ser Asp Thr His Ile
 180 185 190
 Asn Glu Met Met Val Phe Val Leu Gly Gly Thr Val Leu Ile Val Pro
 195 200 205
 Phe Leu Cys Ile Val Thr Ser Tyr Ile His Ile Val Pro Ala Ile Leu
 210 215 220
 Arg Val Arg Thr Arg Gly Val Gly Lys Ala Phe Ser Thr Cys Ser
 225 230 235 240
 Ser His Leu Cys Val Val Cys Val Phe Tyr Gly Thr Leu Phe Ser Ala
 245 250 255
 Tyr Leu Cys Pro Pro Ser Ile Ala Ser Glu Glu Lys Asp Ile Ala Ala
 260 265 270
 Ala Ala Met Tyr Thr Ile Val Thr Pro Met Leu Asn Pro Phe Ile Tyr
 275 280 285
 Ser Leu Arg Asn Lys Asp Met Lys Gly Ala Leu Lys Arg Leu Phe Ser
 290 295 300
 His Arg Ser Ile Val Ser Ser
 305 310

<210> 1624

<211> 314

<212> PRT

<213> Unknown (H38g541 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(314)

<223> Xaa = Any Amino Acid

<400> 1624

Met Gly Gly Lys Gln Pro Trp Val Thr Glu Phe Ile Leu Val Gly Phe
 1 5 10 15
 Gln Val Gly Pro Ala Leu Ala Ile Leu Leu Cys Gly Leu Phe Ser Val
 20 25 30
 Phe Tyr Thr Leu Thr Leu Leu Gly Asn Gly Val Ile Phe Gly Ile Ile
 35 40 45
 Cys Leu Asp Ser Lys Leu His Thr Pro Met Tyr Phe Phe Leu Ser His

```

      50              55              60
Leu Ala Ile Ile Asp Met Ser Tyr Ala Ser Asn Asn Val Pro Lys Met
65              70              75              80
Leu Ala Asn Leu Met Asn Gln Lys Ser Thr Ile Ser Phe Val Pro Cys
      85              90              95
Ile Met Gln Thr Phe Leu Tyr Leu Ala Phe Ala Val Thr Glu Cys Leu
      100              105              110
Ile Leu Val Val Met Ser Tyr Asp Arg Tyr Val Ala Ile Cys His Pro
      115              120              125
Phe Gln Tyr Thr Val Ile Met Ser Trp Arg Val Cys Thr Ile Leu Ala
      130              135              140
Ser Thr Cys Trp Ile Ile Ser Phe Leu Met Ala Leu Val His Ile Thr
145              150              155              160
His Ile Leu Arg Pro Pro Phe Cys Gly Pro Gln Lys Ile Asn His Phe
      165              170              175
Ile Cys Gln Ile Met Ser Val Phe Lys Leu Ala Cys Ala Gly Pro Arg
      180              185              190
Leu Asn Gln Val Val Leu Tyr Ala Gly Ser Ala Phe Ile Val Glu Gly
      195              200              205
Pro Leu Cys Leu Glu Leu Val Ser Asn Leu His Ile Leu Ser Ala Ile
      210              215              220
Leu Arg Ile Gln Asn Gly Glu Gly Arg Arg Pro Thr Tyr Ser Ser Cys
225              230              235              240
Ser Ser His Leu Cys Met Val Gly Leu Leu Phe Gly Ser Thr Met Val
      245              250              255
Met Tyr Met Ala Pro Lys Ser Arg His Pro Glu Glu Gln Gln Lys Val
      260              265              270
Leu Ser Leu Phe Tyr Ser Leu Phe Asn Pro Met Leu Asn Pro Leu Ile
      275              280              285
Tyr Ser Leu Arg Asn Ala Glu Val Lys Gly Ala Leu Lys Arg Val Leu
      290              295              300
Trp Lys Gln Arg Ser Lys Xaa Gly Met Pro
305              310

```

<210> 1625

<211> 193

<212> PRT

<213> Unknown (H38g542 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(193)

<223> Xaa = Any Amino Acid

<400> 1625

```

Leu Lys Val Tyr Xaa Lys Ala Ile Xaa Val Gln Lys Gln Gly Lys Phe
1      5      10      15
Phe Val Ile Ile Phe Cys Xaa Xaa Cys Glu Met Xaa Gly Lys Asn Ile
      20      25      30
Gln Leu Xaa Gly Cys Leu Thr Val Leu Leu Glu Thr Ser Phe Ala Leu
      35      40      45
Gln Arg Pro Leu Cys Gly Asn Leu Ile Asp Asp Thr Cys Glu Ile Leu
      50      55      60
Glu Val Leu Lys Leu Val Cys Ser Ser Ser Leu Leu Met Asp Met Ile
65      70      75      80
Met Met Val Val Asn Ile Leu Leu Leu Pro Ile Pro Met Tyr Leu Phe
      85      90      95
Ile Thr Met Cys Ser Val Ile Leu Phe Leu Lys Arg Ser Tyr Gly Asn
      100      105      110

```

Leu Pro Arg Glu Phe Ser Phe Cys Ile Ser Trp Ser Ile Trp Val Phe
 115 120 125
 Val Tyr Cys Leu Ala Ile Ile Phe Arg Ala Leu Tyr Lys Leu Thr Lys
 130 135 140
 Ile Trp Gly Ser Thr Met Asn Glu Ile Val Arg Trp Met Tyr Xaa Tyr
 145 150 155 160
 Xaa Thr Tyr Xaa Tyr Xaa Ile Val Xaa His Lys Leu Ala Leu Lys Tyr
 165 170 175
 Asn His Lys Leu Val Ser Thr Met Leu Gln Ala Leu Leu Ser Phe Leu
 180 185 190
 Lys

<210> 1626

<211> 314

<212> PRT

<213> Unknown (H38g543 protein)

<220>

<223> Synthetic construct

<400> 1626

Met Ala Glu Glu Asn His Thr Met Lys Asn Glu Phe Ile Leu Thr Gly
 1 5 10 15
 Phe Thr Asp His Pro Glu Leu Lys Thr Leu Leu Phe Val Val Phe Phe
 20 25 30
 Ala Ile Tyr Leu Ile Thr Val Val Gly Asn Ile Ser Leu Val Ala Leu
 35 40 45
 Ile Phe Thr His Arg Arg Leu His Thr Pro Met Tyr Ile Phe Leu Gly
 50 55 60
 Asn Leu Ala Leu Val Asp Ser Cys Cys Ala Cys Ala Ile Thr Pro Lys
 65 70 75 80
 Met Leu Glu Asn Phe Phe Ser Glu Asn Lys Arg Ile Ser Leu Tyr Glu
 85 90 95
 Cys Ala Val Gln Phe Tyr Phe Leu Cys Thr Val Glu Thr Ala Asp Cys
 100 105 110
 Phe Leu Leu Ala Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Asn
 115 120 125
 Pro Leu Gln Tyr His Ile Met Met Ser Lys Lys Leu Cys Ile Gln Met
 130 135 140
 Thr Thr Gly Ala Phe Ile Ala Gly Asn Leu His Ser Met Ile His Val
 145 150 155 160
 Gly Leu Val Phe Arg Leu Val Phe Cys Gly Ser Asn His Ile Asn His
 165 170 175
 Phe Tyr Cys Asp Ile Leu Pro Leu Tyr Arg Leu Ser Cys Val Asp Pro
 180 185 190
 Tyr Ile Asn Glu Leu Val Leu Phe Ile Phe Ser Gly Ser Val Gln Val
 195 200 205
 Phe Thr Ile Gly Ser Val Leu Ile Ser Tyr Leu Tyr Ile Leu Leu Thr
 210 215 220
 Ile Phe Lys Met Lys Ser Lys Glu Gly Arg Ala Lys Ala Phe Ser Thr
 225 230 235 240
 Cys Ala Ser His Phe Leu Ser Val Ser Leu Phe Tyr Gly Ser Leu Phe
 245 250 255
 Phe Met Tyr Val Arg Pro Asn Leu Leu Glu Glu Gly Asp Lys Asp Ile
 260 265 270
 Pro Ala Ala Ile Leu Phe Thr Ile Val Val Pro Leu Leu Asn Pro Phe
 275 280 285
 Ile Tyr Ser Leu Arg Asn Arg Glu Val Ile Ser Val Leu Arg Lys Ile
 290 295 300
 Leu Met Lys Glu Ile Ile Ser Arg Arg Trp

305

310

<210> 1627

<211> 316

<212> PRT

<213> Unknown (H38g544 protein)

<220>

<223> Synthetic construct

<400> 1627

```

Met Gln Gly Glu Asn Phe Thr Ile Trp Ser Ile Phe Phe Leu Glu Gly
 1           5           10           15
Phe Ser Gln Tyr Pro Gly Leu Glu Val Val Leu Phe Val Phe Ser Leu
      20           25           30
Val Met Tyr Leu Thr Thr Leu Leu Gly Asn Ser Thr Leu Ile Leu Ile
      35           40           45
Thr Ile Leu Asp Ser Arg Leu Lys Thr Pro Met Tyr Leu Phe Leu Gly
      50           55           60
Asn Leu Ser Phe Met Asp Ile Cys Tyr Thr Ser Ala Ser Val Pro Thr
      65           70           75           80
Leu Leu Val Asn Leu Leu Ser Ser Gln Lys Thr Ile Ile Phe Ser Gly
      85           90           95
Cys Ala Val Gln Met Tyr Leu Ser Leu Ala Met Gly Ser Thr Glu Cys
      100          105          110
Val Leu Leu Ala Val Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Asn
      115          120          125
Pro Leu Arg Tyr Ser Ile Ile Met Asn Arg Cys Val Cys Ala Arg Met
      130          135          140
Ala Thr Val Ser Trp Val Thr Gly Cys Leu Thr Ala Leu Leu Glu Thr
      145          150          155          160
Ser Phe Ala Leu Gln Ile Pro Leu Cys Gly Asn Leu Ile Asp His Phe
      165          170          175
Thr Cys Glu Ile Leu Ala Val Leu Lys Leu Ala Cys Thr Ser Ser Leu
      180          185          190
Leu Met Asn Thr Ile Met Leu Val Ser Ile Leu Leu Pro Ile
      195          200          205
Pro Met Leu Leu Val Cys Ile Ser Tyr Ile Phe Ile Leu Ser Thr Ile
      210          215          220
Leu Arg Ile Thr Ser Ala Glu Gly Arg Asn Lys Ala Phe Ser Thr Cys
      225          230          235          240
Gly Ala His Leu Thr Val Val Ile Leu Tyr Tyr Gly Ala Ala Leu Ser
      245          250          255
Met Tyr Leu Lys Pro Ser Ser Ser Asn Ala Gln Lys Ile Asp Lys Ile
      260          265          270
Ile Ser Leu Leu Tyr Gly Val Leu Thr Pro Met Leu Asn Pro Ile Ile
      275          280          285
Tyr Ser Leu Arg Asn Lys Glu Val Lys Asp Ala Met Lys Lys Leu Leu
      290          295          300
Gly Lys Ile Thr Leu His Gln Thr His Glu His Leu
      305          310          315

```

<210> 1628

<211> 312

<212> PRT

<213> Unknown (H38g545 protein)

<220>

<223> Synthetic construct

<400> 1628

Met Met Gly Arg Arg Asn Asn Thr Asn Val Ala Asp Phe Ile Leu Met
 1 5 10 15
 Gly Leu Thr Leu Ser Glu Glu Ile Gln Met Ala Leu Phe Met Leu Phe
 20 25 30
 Leu Leu Ile Tyr Leu Ile Thr Met Leu Gly Asn Val Gly Met Ile Leu
 35 40 45
 Ile Ile Arg Leu Asp Leu Gln Leu His Thr Pro Met Tyr Phe Phe Leu
 50 55 60
 Thr His Leu Ser Phe Ile Asp Leu Ser Tyr Ser Thr Val Val Thr Pro
 65 70 75 80
 Lys Thr Leu Ala Asn Leu Leu Thr Ser Asn Tyr Ile Ser Phe Thr Gly
 85 90 95
 Cys Phe Ala Gln Met Phe Phe Phe Ala Phe Leu Gly Thr Ala Glu Cys
 100 105 110
 Tyr Leu Leu Ser Ser Met Ala His Asp Arg Tyr Ala Ala Ile Cys Ser
 115 120 125
 Pro Leu His Tyr Thr Val Ile Met Ser Lys Arg Leu Cys Leu Ala Leu
 130 135 140
 Ile Thr Gly Pro Tyr Val Ile Gly Phe Ile Asp Ser Phe Val Asn Val
 145 150 155 160
 Val Ser Met Ser Arg Leu His Phe Tyr Asp Ser Asn Val Ile His His
 165 170 175
 Phe Phe Cys Asp Thr Ser Pro Ile Leu Ala Leu Ser Cys Thr Asp Thr
 180 185 190
 Tyr Asn Thr Glu Ile Leu Ile Phe Ile Ile Val Gly Ser Thr Leu Met
 195 200 205
 Val Ser Leu Phe Thr Ile Ser Ala Ser Tyr Val Phe Ile Leu Phe Thr
 210 215 220
 Ile Leu Lys Ile Asn Ser Thr Ser Gly Lys Gln Lys Ala Phe Ser Thr
 225 230 235 240
 Cys Val Ser His Leu Leu Gly Val Thr Ile Phe Tyr Ser Thr Leu Ile
 245 250 255
 Phe Thr Tyr Leu Lys Pro Arg Lys Ser Tyr Ser Leu Gly Arg Asp Gln
 260 265 270
 Val Ala Ser Val Phe Tyr Thr Ile Val Ile Pro Val Leu Asn Pro Leu
 275 280 285
 Ile Tyr Ser Leu Arg Asn Lys Glu Val Lys Asn Ala Val Ile Arg Val
 290 295 300
 Met Gln Arg Arg Gln Asp Ser Arg
 305 310

<210> 1629

<211> 212

<212> PRT

<213> Unknown (H38g546 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(212)

<223> Xaa = Any Amino Acid

<400> 1629

Thr Met Phe Tyr Lys Ile Ser Ala Leu Phe Xaa Cys Leu Cys Ile Thr
 1 5 10 15
 Leu Phe Xaa Xaa Lys Leu Ser Lys Gln Lys Ile Tyr Trp Val Leu Thr
 20 25 30
 Ile Phe Gly Phe Leu Glu Ala Phe Ile Ala Met Asn Lys Leu Xaa Lys
 35 40 45
 Leu Tyr Ser Ser Leu Ile Cys Leu Tyr Phe Ile Ile Xaa Ile Phe Lys

```

      50      55      60
Phe Ser Asn Met Phe Ile Phe Tyr Asn Met Asn Ile Ser Val His Tyr
65      70      75      80
Phe Leu Lys Cys Ile Phe Phe Phe Cys Ile Cys Cys Leu Xaa Leu Leu
      85      90      95
Ile Phe Asp Ser Phe Ser Thr His Pro Pro Leu Pro Leu Leu Xaa Glu
      100      105      110
Ala Asp Ile Cys Ala Asn Ser Xaa Pro Cys Tyr Thr Asn Thr Thr Ala
      115      120      125
Ser Xaa Xaa His Phe Tyr Ile Ile Leu Asn Phe Cys Leu Ser Tyr Xaa
      130      135      140
Pro Ser Val Ser Ser Met Leu Tyr Gly Arg Leu Phe Leu Met Tyr Leu
145      150      155      160
Met Pro Glu Asn Ser Leu Asp Thr Asp Arg Met Ala Ser Val Phe Tyr
      165      170      175
Thr Val Val Ile Pro Met Leu Asn Pro Leu Ile Trp Ser Pro Arg Asn
      180      185      190
Lys Asp Val Thr Ser Ala Leu Arg Lys Val Met Val Asn Arg Lys Gln
      195      200      205
Ala Leu Phe Cys
      210

```

<210> 1630

<211> 228

<212> PRT

<213> Unknown (H38g547 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(228)

<223> Xaa = Any Amino Acid

<400> 1630

```

Cys Met Phe Ser Phe Tyr Phe Asn Phe Tyr His Phe Phe Ser Thr Xaa
1      5      10      15
Lys Val Leu Gln Ser Leu Arg Asn Ala Glu Ile Asn Xaa Leu Val Xaa
      20      25      30
Ser Lys Val Ser Asp Xaa Xaa Asn Leu Leu Xaa Asn Xaa Leu Ala Phe
      35      40      45
Ser Trp Thr Ile Arg Leu Cys Thr Thr Thr Ser Tyr Ser Asn Met Gln
50      55      60
Phe Ser Phe Gln Cys Cys Met Thr Gln Tyr Pro Ala Leu Gln Ser Thr
65      70      75      80
Phe Phe Phe Leu Gly Arg Ser Gln Val Phe Leu Leu Leu Leu Met Ala
      85      90      95
Tyr Asp Asn Tyr Arg Ala Ile Xaa Lys Ser Leu Gln Tyr Leu Val Val
      100      105      110
Met Lys Gln Trp Leu Cys Val Val Leu Leu Val Val Pro Trp Ala Gly
      115      120      125
Gly Phe Leu His Thr Val Ile Gln Leu Gly Leu Ile His Gly Leu Pro
130      135      140
Ser Tyr Asp Pro Asn Val Ile Gly Arg Phe Val Cys Asp Met Asp Pro
145      150      155      160
Leu Met Lys Leu Val Cys Asp Tyr Thr Leu Asn Arg Phe Val Tyr Phe
      165      170      175
Ala Gly His Asp Leu Asn Tyr Xaa Val Leu Tyr Ile Ser Phe Ile Phe
      180      185      190
Arg Leu Asp Cys Phe Leu Leu Val Ile Xaa Leu Trp Tyr Pro Phe Val
195      200      205

```

Ile Phe Ser Leu Glu Arg His Asp Ser Ile Asn Leu Val Ile His Ser
 210 215 220
 Tyr Tyr Pro Cys
 225

<210> 1631

<211> 299

<212> PRT

<213> Unknown (H38g548 protein)

<220>

<223> Synthetic construct

<400> 1631

Met Glu Pro Arg Lys Asn Val Thr Asp Phe Val Leu Leu Gly Phe Thr
 1 5 10 15
 Gln Asn Pro Lys Glu Gln Lys Val Leu Phe Val Met Phe Leu Leu Phe
 20 25 30
 Tyr Ile Leu Thr Met Val Gly Asn Leu Leu Ile Val Val Thr Val Thr
 35 40 45
 Val Ser Glu Thr Leu Gly Ser Pro Met Ser Phe Phe Leu Ala Gly Leu
 50 55 60
 Thr Phe Ile Asp Ile Ile Tyr Ser Ser Ser Ile Ser Pro Arg Leu Ile
 65 70 75 80
 Ser Asp Leu Phe Phe Gly Asn Asn Ser Ile Ser Phe Gln Ser Phe Met
 85 90 95
 Ala Gln Leu Phe Ile Glu His Leu Phe Gly Gly Ser Glu Val Phe Leu
 100 105 110
 Leu Leu Val Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Lys Pro Leu
 115 120 125
 His Tyr Leu Val Ile Met Arg Gln Trp Val Cys Val Leu Leu Leu Val
 130 135 140
 Val Ser Trp Val Gly Gly Phe Leu Gln Ser Val Phe Gln Leu Ser Ile
 145 150 155 160
 Ile Tyr Gly Leu Pro Phe Cys Gly Pro Asn Val Ile Asp His Phe Phe
 165 170 175
 Cys Asp Met Tyr Pro Leu Leu Lys Leu Ala Cys Thr Asp Thr His Val
 180 185 190
 Ile Gly Leu Leu Val Val Ala Asn Gly Gly Leu Ser Cys Thr Ile Ala
 195 200 205
 Phe Leu Leu Leu Ile Ser Tyr Gly Val Ile Leu His Ser Leu Lys
 210 215 220
 Lys Leu Ser Gln Lys Gly Arg Gln Lys Ala His Ser Thr Cys Ser Ser
 225 230 235 240
 His Ile Thr Val Val Val Phe Phe Phe Val Pro Cys Ile Phe Met Cys
 245 250 255
 Ala Arg Pro Ala Arg Thr Phe Ser Ile Asp Lys Ser Val Ser Val Phe
 260 265 270
 Tyr Thr Val Ile Thr Pro Met Leu Asn Pro Leu Ile Tyr Thr Leu Arg
 275 280 285
 Asn Ser Glu Met Thr Ser Ala Met Lys Lys Leu
 290 295

<210> 1632

<211> 315

<212> PRT

<213> Unknown (H38g549 protein)

<220>

<223> Synthetic construct

<400> 1632

```

Met Ser Pro Asp Gly Asn His Ser Ser Asp Pro Thr Glu Phe Val Leu
 1           5           10           15
Ala Gly Leu Pro Asn Leu Asn Ser Ala Arg Val Glu Leu Phe Ser Val
          20           25           30
Phe Leu Leu Val Tyr Leu Leu Asn Leu Thr Gly Asn Val Leu Ile Val
          35           40           45
Gly Val Val Arg Ala Asp Thr Arg Leu Gln Thr Pro Met Tyr Phe Phe
          50           55           60
Leu Gly Asn Leu Ser Cys Leu Glu Ile Leu Leu Thr Ser Val Ile Ile
65           70           75           80
Pro Lys Met Leu Ser Asn Phe Leu Ser Arg Gln His Thr Ile Ser Phe
          85           90           95
Ala Ala Cys Ile Thr Gln Phe Tyr Phe Tyr Phe Phe Leu Gly Ala Ser
          100          105          110
Glu Phe Leu Leu Leu Ala Val Met Ser Ala Asp Arg Tyr Leu Ala Ile
          115          120          125
Cys His Pro Leu Arg Tyr Pro Leu Leu Met Ser Gly Ala Val Cys Phe
          130          135          140
Arg Val Ala Leu Ala Cys Trp Val Gly Gly Leu Val Pro Val Leu Gly
145          150          155          160
Pro Thr Val Ala Val Ala Leu Leu Pro Phe Cys Lys Gln Gly Ala Val
          165          170          175
Val Gln His Phe Phe Cys Asp Ser Gly Pro Leu Leu Arg Leu Ala Cys
          180          185          190
Thr Asn Thr Lys Lys Leu Glu Glu Thr Asp Phe Val Leu Ala Ser Leu
          195          200          205
Val Ile Val Ser Ser Leu Leu Ile Thr Ala Val Ser Tyr Gly Leu Ile
          210          215          220
Val Leu Ala Val Leu Ser Ile Pro Ser Ala Ser Gly Arg Gln Lys Ala
225          230          235          240
Phe Ser Thr Cys Thr Ser His Leu Ile Val Val Thr Leu Phe Tyr Gly
          245          250          255
Ser Ala Ile Phe Leu Tyr Val Arg Pro Ser Gln Ser Gly Ser Val Asp
          260          265          270
Thr Asn Trp Ala Val Thr Val Ile Thr Thr Phe Val Thr Pro Leu Leu
          275          280          285
Asn Pro Phe Ile Tyr Ala Leu Arg Asn Glu Gln Val Lys Glu Ala Leu
          290          295          300
Lys Asp Met Phe Arg Lys Val Val Ala Gly Val
305          310          315

```

<210> 1633

<211> 260

<212> PRT

<213> Unknown (H38g550 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(260)

<223> Xaa = Any Amino Acid

<400> 1633

```

Val Leu Cys Val Ile Phe Cys Lys Xaa Asn His His Ile Ser Leu Leu
 1           5           10           15
Ser Phe Phe Glu Tyr Leu Met Thr Xaa Xaa Lys Lys Tyr Gly Ser Ile
          20           25           30
Cys Ser Thr Met Leu Val Ser Ile Arg Ile Lys Tyr Leu Glu Val Phe
          35           40           45

```


Ala Glu Asn Leu Phe Gly Ala Ala Glu Ile Ile Pro Leu Met Trp Met
 50 55 60
 Val His Gly Cys Tyr Val Thr Val Cys Asn Tyr Met Thr Ile Val Asn
 65 70 75 80
 Gln Tyr Arg Cys Ser His Leu Thr Gly Met Ala Trp Thr Glu Ser Phe
 85 90 95
 Ile His Gly Thr Val Xaa Ile Leu Ser Pro Val Xaa Leu Pro Phe Tyr
 100 105 110
 Asp Pro Asn Val Ile Ala His Phe Met Cys Asp Leu Asn Thr Phe Leu
 115 120 125
 Lys Leu Leu Cys Met Gly Thr Thr Asn Thr Ile Gly Phe Phe Val Ala
 130 135 140
 Ala Asn Gly Gly Phe Asn Tyr Leu Leu Asn Ile Ile Phe Leu Met Val
 145 150 155 160
 Ser Xaa Val Ala Ile Leu Cys Thr Leu Lys Thr His Ser Leu Glu Glu
 165 170 175
 Arg Cys Xaa Ser Leu Ser Thr Cys Ile Ser His Thr Thr Met Val Ile
 180 185 190
 Leu Phe Phe Glu Phe Cys Ile Ser Val Tyr Leu Cys Pro Val Thr Leu
 195 200 205
 Leu Pro Ile Asn Lys Ala Met Ala Val Phe His Thr Val Ile Asn Pro
 210 215 220
 Met Leu Lys Pro Leu Val Tyr Thr Leu Arg Asn Ala Glu Val Lys Ser
 225 230 235 240
 Ala Leu Arg Lys Val Trp Val Lys Arg Xaa Pro Glu Glu Arg Asn Asn
 245 250 255
 Leu Asn Ile Arg
 260

<210> 1634

<211> 318

<212> PRT

<213> Unknown (H38g551 protein)

<220>

<223> Synthetic construct

<400> 1634

Met Glu Trp Glu Asn His Thr Ile Leu Val Glu Phe Phe Leu Lys Gly
 1 5 10 15
 Leu Ser Gly His Pro Arg Leu Glu Leu Leu Phe Phe Val Leu Ile Phe
 20 25 30
 Ile Met Tyr Val Val Ile Leu Leu Gly Asn Gly Thr Leu Ile Leu Ile
 35 40 45
 Ser Ile Leu Asp Pro His Leu His Thr Pro Met Tyr Phe Phe Leu Gly
 50 55 60
 Asn Leu Ser Phe Leu Asp Ile Cys Tyr Thr Thr Thr Ser Ile Pro Ser
 65 70 75 80
 Thr Leu Val Ser Phe Leu Ser Glu Arg Lys Thr Ile Ser Leu Ser Gly
 85 90 95
 Cys Ala Val Gln Met Phe Leu Ser Leu Ala Met Gly Thr Thr Glu Cys
 100 105 110
 Val Leu Leu Gly Val Met Ala Phe Asp Arg Tyr Val Ala Ile Cys Asn
 115 120 125
 Pro Leu Arg Tyr Pro Ile Ile Met Ser Lys Asp Ala Tyr Val Pro Met
 130 135 140
 Ala Ala Gly Ser Trp Ile Ile Gly Ala Val Asn Ser Ala Val Gln Thr
 145 150 155 160
 Val Phe Val Val Gln Leu Pro Phe Cys Arg Asn Asn Ile Ile Asn His
 165 170 175
 Phe Thr Cys Glu Ile Leu Ala Val Met Lys Leu Ala Cys Ala Asp Ile

<210> 1635
<211> 333
<212> PRT
<213> Unknown (H38q552 protein)

```
<221> VARIANT
<222> (1)...(333)
<223> Xaa = Any Amino Acid
```

886

Ser Ala His Met Thr Val Val Ile Val Phe Tyr Gly Thr Ile Leu Phe
 245 250 255
 Met Tyr Met Lys Ala Lys Ser Lys Asp Ser Ala Phe Asp Lys Leu Ile
 260 265 270
 Ala Leu Phe Tyr Gly Ile Val Thr Pro Met Leu Asn Pro Ile Ile Tyr
 275 280 285
 Ser Leu Arg Asn Thr Glu Val His Gly Ala Met Arg Lys Leu Met Ser
 290 295 300
 Arg His Leu Val Leu Glu Glu Met Met Thr His Xaa His Leu Xaa Val
 305 310 315 320
 Tyr Ala Gln Asn Thr Leu Thr Ser Leu Arg Gln His Phe
 325 330

<210> 1636

<211> 322

<212> PRT

<213> Unknown (H38g553 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(322)

<223> Xaa = Any Amino Acid

<400> 1636

His Thr Glu Pro Trp Asn Leu Thr Asp Val Xaa Glu Phe Leu Leu Leu
 1 5 10 15
 Gly Leu Ser Glu Asp Pro Glu Leu Gln Pro Val Leu Ala Leu Leu Ser
 20 25 30
 Leu Ser Leu Ser Met Cys Leu Val Met Val Leu Arg Asn Leu Leu Ser
 35 40 45
 Ile Leu Ala Val Ser Ser Val Ser Pro Leu His Thr Pro Val Tyr Phe
 50 55 60
 Phe Leu Ser Lys Leu Cys Trp Ala Asp Ile Gly Phe Thr Leu Ala Thr
 65 70 75 80
 Val Pro Lys Met Ile Val Asp Met Gln Ser His Ser Arg Val Ile Ser
 85 90 95
 His Ala Gly Cys Leu Thr Gln Met Ser Phe Phe Ile Leu Phe Ala Cys
 100 105 110
 Ile Glu Gly Met Leu Leu Thr Val Met Ala Tyr Asp Cys Phe Val Ala
 115 120 125
 Ile Cys Arg Pro Leu His Tyr Pro Val Ile Val Asn Pro His Leu Cys
 130 135 140
 Val Ser Phe Leu Leu Val Ser Phe Phe Leu Ser Met Leu Asp Ser Gln
 145 150 155 160
 Leu His Ser Xaa Ile Val Leu Gln Phe Thr Ile Ile Lys Asn Val Glu
 165 170 175
 Ile Ser Asn Phe Val Cys Asp Pro Ser Gln Leu Leu Lys Leu Ala Cys
 180 185 190
 Ser Asp Ser Val Ile Asn Ser Ile Phe Ile Tyr Phe Asn Ser Thr Met
 195 200 205
 Phe Gly Phe Leu Pro Ile Ser Gly Ile Leu Trp Ser Tyr Cys Lys Ile
 210 215 220
 Val Pro Ser Ile Leu Arg Ile Ser Ser Ser Asp Gly Lys Tyr Lys Ala
 225 230 235 240
 Phe Ser Thr Cys Gly Ser His Leu Ala Val Val Cys Xaa Phe Tyr Arg
 245 250 255
 Thr Gly Ile Gly Met Tyr Leu Thr Ser Ala Val Ser Pro Pro Pro Arg
 260 265 270
 Asn Gly Val Val Ala Ser Ala Met Phe Ser Val Val Thr Pro Met Leu

| | | |
|-------------------------|-------------------------|---------------------|
| 275 | 280 | 285 |
| Asn Leu Phe Ile Tyr Ser | Leu Arg Asn Arg Asp | Ile Gln Ser Ala Leu |
| 290 | 295 | 300 |
| Arg Arg Leu Leu Ser | Arg Thr Val Glu Ser Tyr | Asp Leu Phe His Pro |
| 305 | 310 | 315 |
| Phe Ser | | 320 |

<210> 1637

<211> 312

<212> PRT

<213> Unknown (H38g554 protein)

<220>

<223> Synthetic construct

<400> 1637

| | |
|---|--|
| Met Ala Gly Glu Asn His Thr Thr Leu Pro Glu Phe Leu Leu Leu Gly | |
| 1 5 10 15 | |
| Phe Ser Asp Leu Lys Ala Leu Gln Gly Pro Leu Phe Trp Val Val Leu | |
| 20 25 30 | |
| Leu Val Tyr Leu Val Thr Leu Leu Gly Asn Ser Leu Ile Ile Leu Leu | |
| 35 40 45 | |
| Thr Gln Val Ser Pro Ala Leu His Ser Pro Met Tyr Phe Phe Leu Arg | |
| 50 55 60 | |
| Gln Leu Ser Val Val Glu Leu Phe Tyr Thr Thr Asp Ile Val Pro Arg | |
| 65 70 75 80 | |
| Thr Leu Ala Asn Leu Gly Ser Pro His Pro Gln Ala Ile Ser Phe Gln | |
| 85 90 95 | |
| Gly Cys Ala Ala Gln Met Tyr Val Phe Ile Val Leu Gly Ile Ser Glu | |
| 100 105 110 | |
| Cys Cys Leu Leu Thr Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys | |
| 115 120 125 | |
| Gln Pro Leu Arg Tyr Ser Thr Leu Leu Ser Pro Arg Ala Cys Met Ala | |
| 130 135 140 | |
| Met Val Gly Thr Ser Trp Leu Thr Gly Ile Ile Thr Ala Thr Thr His | |
| 145 150 155 160 | |
| Ala Ser Leu Ile Phe Ser Leu Pro Phe Arg Ser His Pro Ile Ile Pro | |
| 165 170 175 | |
| His Phe Leu Cys Asp Ile Leu Pro Val Leu Arg Leu Ala Ser Ala Gly | |
| 180 185 190 | |
| Lys His Arg Ser Glu Ile Ser Val Met Thr Ala Thr Ile Val Phe Ile | |
| 195 200 205 | |
| Met Ile Pro Phe Ser Leu Ile Val Thr Ser Tyr Ile Arg Ile Leu Gly | |
| 210 215 220 | |
| Ala Ile Leu Ala Met Ala Ser Thr Gln Ser Arg Arg Lys Val Phe Ser | |
| 225 230 235 240 | |
| Thr Cys Ser Ser His Leu Leu Val Val Ser Leu Phe Phe Gly Thr Ala | |
| 245 250 255 | |
| Ser Ile Thr Tyr Ile Arg Pro Gln Ala Gly Ser Ser Val Thr Thr Asp | |
| 260 265 270 | |
| Arg Val Leu Ser Leu Phe Tyr Thr Val Ile Thr Pro Met Leu Asn Pro | |
| 275 280 285 | |
| Ile Ile Tyr Thr Leu Arg Asn Lys Asp Val Arg Arg Ala Leu Arg His | |
| 290 295 300 | |
| Leu Val Lys Arg Gln Arg Pro Ser | |
| 305 310 | |

<210> 1638

<211> 310

<212> PRT

<213> Unknown (H38g555 protein)

<220>

<223> Synthetic construct

<400> 1638

```

Met Ala Gly Asn Asn Phe Thr Glu Val Thr Val Phe Ile Leu Ser Gly
 1           5           10           15
Phe Ala Asn His Pro Glu Leu Gln Val Ser Leu Phe Leu Met Phe Leu
      20           25           30
Phe Ile Tyr Leu Phe Thr Val Leu Gly Asn Leu Gly Leu Ile Thr Leu
      35           40           45
Ile Arg Met Asp Ser Gln Leu His Thr Pro Met Tyr Phe Phe Leu Ser
      50           55           60
Asn Leu Ala Phe Ile Asp Ile Phe Tyr Ser Ser Thr Val Thr Pro Lys
      65           70           75           80
Ala Leu Val Asn Phe Gln Ser Asn Arg Arg Ser Ile Ser Phe Val Gly
      85           90           95
Cys Phe Val Gln Met Tyr Phe Phe Val Gly Leu Val Cys Cys Glu Cys
      100          105          110
Phe Leu Leu Gly Ser Met Ala Tyr Asn Arg Tyr Ile Ala Ile Cys Asn
      115          120          125
Pro Leu Leu Tyr Ser Val Val Met Ser Gln Lys Val Ser Asn Trp Leu
      130          135          140
Gly Val Met Pro Tyr Val Ile Gly Phe Thr Ser Ser Leu Ile Ser Val
      145          150          155          160
Trp Val Ile Ser Ser Leu Ala Phe Cys Asp Ser Ser Ile Asn His Phe
      165          170          175
Phe Cys Asp Thr Thr Ala Leu Leu Ala Leu Ser Cys Val Asp Thr Phe
      180          185          190
Gly Thr Glu Met Val Ser Phe Val Leu Ala Gly Phe Thr Leu Leu Ser
      195          200          205
Ser Leu Leu Ile Ile Thr Val Thr Tyr Ile Ile Ile Ile Ser Ala Ile
      210          215          220
Leu Arg Ile Gln Ser Ala Ala Gly Arg Gln Lys Ala Phe Ser Thr Cys
      225          230          235          240
Ala Ser His Leu Met Ala Val Thr Ile Phe Tyr Gly Ser Leu Ile Phe
      245          250          255
Thr Tyr Leu Gln Pro Asp Asn Thr Ser Ser Leu Thr Gln Ala Gln Val
      260          265          270
Ala Ser Val Phe Tyr Thr Ile Val Ile Pro Met Leu Asn Pro Leu Ile
      275          280          285
Tyr Ser Leu Arg Asn Lys Asp Val Lys Asn Ala Leu Leu Arg Val Ile
      290          295          300
His Arg Lys Leu Phe Pro
305          310

```

<210> 1639

<211> 157

<212> PRT

<213> Unknown (H38g556 protein)

<220>

<223> Synthetic construct

<400> 1639

```

Ile Cys Ser Pro Leu Leu Tyr Ser Val Ile Ile Ser Asn Lys Ala Cys
 1           5           10           15
Phe Ser Leu Ile Leu Gly Val Tyr Ile Ile Gly Leu Val Cys Ala Ser
      20           25           30
Val His Thr Gly Cys Met Phe Arg Val Gln Phe Cys Lys Phe Asp Leu

```

<210> 1640
<211> 178
<212> PRT
<213> Unknown (H38g557' protein)

<220>
<223> Synthetic construct

```
<221> VARIANT
<222> (1)...(178)
<223> Xaa = Any Amino Acid
```

[illegible]

```
<210> 1641
<211> 314
<212> PRT
<213> Unknown (H38g558 protein)
```

<220>
<223> Synthetic construct

<400> 1641

```

Met Thr Arg Lys Asn Tyr Thr Ser Leu Thr Glu Phe Val Leu Leu Gly
 1      5      10      15
Leu Ala Asp Thr Leu Glu Leu Gln Ile Leu Phe Leu Phe Leu
 20      25      30
Val Ile Tyr Thr Leu Thr Val Leu Gly Asn Leu Gly Met Ile Leu Leu
 35      40      45
Ile Arg Ile Asp Ser Gln Leu His Thr Pro Met Tyr Phe Phe Leu Ala
 50      55      60
Asn Leu Ser Phe Val Asp Val Cys Asn Ser Thr Thr Ile Thr Pro Lys
 65      70      75      80
Met Leu Ala Asp Leu Ser Glu Lys Lys Thr Ile Ser Phe Ala Gly
 85      90      95
Cys Phe Leu Gln Met Tyr Phe Phe Ile Ser Leu Ala Thr Thr Glu Cys
100      105      110
Ile Leu Phe Gly Leu Met Ala Tyr Asp Arg Tyr Ala Ala Ile Cys Arg
115      120      125
Pro Leu Leu Tyr Ser Leu Ile Met Ser Arg Thr Val Tyr Leu Lys Met
130      135      140
Ala Ala Gly Ala Phe Ala Ala Gly Leu Leu Asn Phe Met Val Asn Thr
145      150      155      160
Ser His Val Ser Ser Leu Ser Phe Cys Asp Ser Asn Val Ile His His
165      170      175
Phe Phe Cys Asp Ser Pro Pro Leu Phe Lys Leu Ser Cys Ser Asp Thr
180      185      190
Ile Leu Lys Glu Ser Ile Ser Ser Ile Leu Ala Gly Val Asn Ile Val
195      200      205
Gly Thr Leu Leu Val Ile Leu Ser Ser Tyr Ser Tyr Val Leu Phe Ser
210      215      220
Ile Phe Ser Met His Ser Gly Glu Gly Arg His Arg Ala Phe Ser Thr
225      230      235      240
Cys Ala Ser His Leu Thr Ala Ile Ile Leu Phe Tyr Ala Thr Cys Ile
245      250      255
Tyr Thr Tyr Leu Arg Pro Ser Ser Ser Tyr Ser Leu Asn Gln Asp Lys
260      265      270
Val Ala Ser Val Phe Tyr Thr Val Val Ile Pro Met Leu Asn Pro Leu
275      280      285
Ile Tyr Ser Leu Arg Ser Lys Glu Val Lys Lys Ala Leu Ala Asn Val
290      295      300
Ile Ser Arg Lys Arg Thr Ser Ser Phe Leu
305      310

```

<210> 1642

<211> 314

<212> PRT

<213> Unknown (H38g559 protein)

<220>

<223> Synthetic construct

<400> 1642

```

Met Thr Arg Lys Asn Tyr Thr Ser Leu Thr Glu Phe Ile Leu Leu Gly
 1      5      10      15
Leu Ala Asp Thr Leu Glu Leu Gln Ile Leu Phe Leu Leu Phe Leu
 20      25      30
Val Ile Tyr Thr Leu Thr Val Leu Gly Asn Ile Gly Met Ile Leu Leu
 35      40      45
Ile Arg Ile Asp Ser Arg Leu His Thr Pro Met Tyr Phe Phe Leu Val
 50      55      60
Asn Leu Ser Phe Val Asp Ile Cys Tyr Ser Thr Thr Ile Thr Pro Lys

```

| | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 65 | | | | | 70 | | | | | 75 | | | | 80 |
| Met | Leu | Ala | Asp | Leu | Leu | Ser | Glu | Lys | Lys | Thr | Ile | Ser | Phe | Ala |
| | | | | 85 | | | | | 90 | | | | | 95 |
| Cys | Phe | Leu | Gln | Met | Tyr | Phe | Phe | Ile | Ala | Leu | Ala | Thr | Thr | Glu |
| | | | 100 | | | | | 105 | | | | | 110 | |
| Ile | Leu | Phe | Gly | Leu | Met | Ala | Tyr | Asp | Arg | Tyr | Val | Thr | Ile | Cys |
| | | 115 | | | | | 120 | | | | | 125 | | |
| Pro | Leu | Leu | Tyr | Ser | Leu | Ile | Met | Ser | Arg | Thr | Val | Cys | Leu | Lys |
| | 130 | | | | | 135 | | | | | 140 | | | |
| Ala | Ala | Gly | Ala | Phe | Ala | Ala | Gly | Leu | Leu | Asn | Ser | Met | Val | Asn |
| 145 | | | | | 150 | | | | | 155 | | | | 160 |
| Ser | Tyr | Val | Ser | Ser | Leu | Ser | Phe | Cys | Gly | Ser | Asn | Val | Ile | His |
| | | | | 165 | | | | | 170 | | | | | 175 |
| Phe | Phe | Cys | Asn | Ser | Pro | Pro | Leu | Phe | Lys | Leu | Ser | Cys | Ser | Asp |
| | | | 180 | | | | | | 185 | | | | 190 | |
| His | Leu | Lys | Glu | Ser | Ile | Phe | Ser | Thr | Phe | Ala | Gly | Val | Asn | Lys |
| | 195 | | | | | | 200 | | | | | 205 | | |
| Gly | Ala | Leu | Leu | Val | Ile | Leu | Ser | Ser | Tyr | Ser | Tyr | Val | Leu | Phe |
| | 210 | | | | | 215 | | | | | 220 | | | |
| Ile | Phe | Ser | Met | His | Ser | Gly | Glu | Gly | Arg | His | Arg | Ala | Phe | Ser |
| 225 | | | | | 230 | | | | | 235 | | | | 240 |
| Cys | Ala | Ser | His | Leu | Thr | Ala | Ile | Ile | Leu | Phe | Tyr | Thr | Thr | Ser |
| | | | 245 | | | | | | 250 | | | | | 255 |
| Tyr | Thr | Tyr | Leu | Arg | Pro | Ser | Ser | Ser | Tyr | Ser | Leu | Asn | Gln | Asp |
| | | | 260 | | | | | 265 | | | | 270 | | |
| Val | Val | Ser | Val | Phe | Tyr | Thr | Val | Val | Ile | Pro | Ile | Leu | Asn | Pro |
| | | | 275 | | | | 280 | | | | | 285 | | |
| Ile | Tyr | Ser | Leu | Arg | Asn | Lys | Glu | Val | Lys | Lys | Ala | Leu | Ala | Asn |
| | 290 | | | | 295 | | | | | | 300 | | | |
| Ile | Ser | Arg | Lys | Arg | Ile | Pro | Ser | Phe | Leu | | | | | |
| 305 | | | | | 310 | | | | | | | | | |

<210> 1643

<211> 314

<212> PRT

<213> Unknown (H38g560 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(314)

<223> Xaa = Any Amino Acid

<400> 1643

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Ser | Gly | Glu | Asn | Val | Thr | Lys | Val | Ser | Thr | Phe | Ile | Leu | Val | Gly |
| 1 | | | | 5 | | | | 10 | | | | | | 15 | |
| Leu | Pro | Thr | Ala | Pro | Gly | Leu | Gln | Tyr | Leu | Leu | Phe | Leu | Leu | Phe | Leu |
| | | | 20 | | | | | 25 | | | | | 30 | | |
| Leu | Thr | Tyr | Leu | Phe | Val | Leu | Val | Glu | Asn | Leu | Ala | Ile | Ile | Leu | Ile |
| | | 35 | | | | 40 | | | | | | 45 | | | |
| Val | Trp | Ser | Ser | Thr | Ser | Leu | His | Arg | Pro | Met | Tyr | Tyr | Phe | Leu | Ser |
| | 50 | | | | | 55 | | | | | 60 | | | | |
| Ser | Met | Ser | Phe | Leu | Glu | Ile | Trp | Tyr | Val | Ser | Asp | Ile | Thr | Pro | Lys |
| 65 | | | | | 70 | | | | 75 | | | | | 80 | |
| Met | Leu | Glu | Gly | Phe | Leu | Leu | Gln | Gln | Lys | Arg | Ile | Ser | Phe | Val | Gly |
| | | | | 85 | | | | | 90 | | | | | 95 | |
| Cys | Met | Thr | Gln | Leu | Tyr | Phe | Phe | Ser | Ser | Leu | Val | Cys | Thr | Glu | Cys |
| | | | 100 | | | | | 105 | | | | | 110 | | |
| Val | Leu | Leu | Ser | Ser | Met | Ala | Tyr | Asp | Arg | Tyr | Val | Ala | Ile | Cys | His |
| | | 115 | | | | | 120 | | | | | | 125 | | |

Pro Leu Arg Tyr His Val Leu Val Thr Ala Gly Leu Cys Val Gln Leu
 130 135 140
 Val Gly Phe Ser Phe Val Ser Gly Phe Ser Ile Ser Met Ile Lys Val
 145 150 155 160
 Cys Phe Ile Ser Ser Val Thr Phe Cys Gly Ser Asn Val Leu Asn His
 165 170 175
 Phe Phe Cys Asp Ile Ser Pro Ile Leu Lys Leu Ala Cys Thr Asp Phe
 180 185 190
 Ser Thr Ala Glu Leu Val Asp Phe Ile Leu Ala Phe Ile Ile Leu Val
 195 200 205
 Phe Pro Leu Leu Ala Thr Ile Leu Ser Tyr Trp His Ile Thr Leu Ala
 210 215 220
 Val Leu Arg Ile Pro Ser Ala Thr Gly Cys Trp Arg Ala Phe Ser Thr
 225 230 235 240
 Cys Ala Ser His Leu Thr Val Val Thr Val Phe Tyr Thr Ala Leu Leu
 245 250 255
 Phe Met Tyr Val Arg Pro Gln Ala Ile Asp Ser Gln Ser Ser Asn Lys
 260 265 270
 Leu Ile Ser Ala Val Tyr Thr Val Val Thr Pro Ile Ile Asn Pro Leu
 275 280 285
 Ile Tyr Cys Leu Arg Asn Lys Glu Phe Lys Asp Ala Leu Lys Lys Ala
 290 295 300
 Leu Gly Leu Gly Gln Thr Ser His Xaa Asp
 305 310

<210> 1644

<211> 214

<212> PRT

<213> Unknown (H38g561 protein)

<220>

<223> Synthetic construct

<400> 1644

Leu Ala Asp Leu Cys Phe Ser Thr Asn Ile Val Pro Gln Ala Leu Val
 1 5 10 15
 His Leu Leu Ser Arg Lys Lys Val Ile Val Phe Thr Leu Cys Ala Ala
 20 25 30
 Arg Leu Leu Phe Leu Leu Ile Gly Gly Cys Thr Gln Cys Ala Leu Leu
 35 40 45
 Gly Val Met Ser Tyr Asp Arg Tyr Val Ala Ile Cys Asn Pro Leu Arg
 50 55 60
 Tyr Pro Asn Ile Met Thr Trp Lys Val Cys Val Gln Leu Ala Thr Ala
 65 70 75 80
 Pro Trp Thr Ser Gly Ile Leu Val Ser Val Val Asp Thr Thr Phe Thr
 85 90 95
 Leu Arg Leu Pro Tyr Arg Gly Ser Asn Ser Ile Ala His Phe Trp Cys
 100 105 110
 Glu Ala Pro Ala Leu Leu Ile Leu Ala Ser Thr Asp Thr His Ala Ser
 115 120 125
 Glu Met Ala Ile Phe Leu Thr Gly Val Val Ile Leu Leu Ile Pro Val
 130 135 140
 Phe Leu Ile Leu Val Ser Tyr Gly Arg Ile Ile Val Thr Val Val Lys
 145 150 155 160
 Met Lys Ser Thr Val Gly Ser Leu Lys Ala Phe Ser Thr Cys Gly Ser
 165 170 175
 His Leu Met Val Val Ile Leu Phe Tyr Gly Ser Ala Ile Ile Thr Tyr
 180 185 190
 Met Thr Pro Lys Ser Ser Lys Gln Gln Glu Lys Ser Val Ser Val Phe
 195 200 205
 Tyr Pro Ile Val Thr Pro

210

<210> 1645

<211> 316

<212> PRT

<213> Unknown (H38g562 protein)

<220>

<223> Synthetic construct

<400> 1645

```

Met Leu Glu Ser Asn Tyr Thr Met Pro Thr Glu Phe Leu Phe Val Gly
 1           5           10           15
Phe Thr Asp Tyr Leu Pro Leu Arg Val Thr Leu Phe Leu Val Phe Leu
      20           25           30
Leu Val Tyr Thr Leu Thr Met Val Gly Asn Ile Leu Leu Ile Ile Leu
      35           40           45
Val Asn Ile Asn Ser Ser Leu Gln Ile Pro Met Tyr Tyr Phe Leu Ser
      50           55           60
Asn Leu Ser Phe Leu Asp Ile Ser Cys Ser Thr Ala Ile Thr Pro Lys
      65           70           75           80
Met Leu Ala Asn Phe Leu Ala Ser Arg Lys Ser Ile Ser Pro Tyr Gly
      85           90           95
Cys Ala Leu Gln Met Phe Phe Phe Ala Ser Phe Ala Asp Ala Glu Cys
      100          105          110
Leu Ile Leu Ala Ala Met Ala Tyr Asp Arg Tyr Ala Ala Ile Cys Asn
      115          120          125
Pro Leu Leu Tyr Thr Thr Leu Met Ser Arg Arg Val Cys Val Cys Phe
      130          135          140
Ile Val Leu Ala Tyr Phe Ser Gly Ser Thr Thr Ser Leu Val His Val
      145          150          155          160
Cys Leu Thr Phe Arg Leu Ser Phe Cys Gly Ser Asn Ile Val Asn His
      165          170          175
Phe Phe Cys Asp Ile Pro Pro Leu Leu Ala Leu Ser Cys Thr Asp Thr
      180          185          190
Gln Ile Asn Gln Leu Leu Leu Phe Ala Leu Cys Ser Phe Ile Gln Thr
      195          200          205
Ser Thr Phe Val Val Ile Phe Ile Ser Tyr Phe Cys Ile Leu Ile Thr
      210          215          220
Val Leu Ser Ile Lys Ser Ser Gly Gly Arg Ser Lys Thr Phe Ser Thr
      225          230          235          240
Cys Ala Ser His Leu Ile Ala Val Thr Leu Phe Tyr Gly Ala Leu Leu
      245          250          255
Phe Met Tyr Leu Gln Pro Thr Thr Ser Tyr Ser Leu Asp Thr Asp Lys
      260          265          270
Val Val Ala Val Phe Tyr Thr Val Val Phe Pro Met Phe Asn Pro Ile
      275          280          285
Ile Tyr Ser Phe Arg Asn Lys Asp Val Lys Asn Ala Leu Lys Lys Leu
      290          295          300
Leu Glu Arg Ile Gly Tyr Ser Asn Glu Trp Tyr Leu
      305          310          315

```

<210> 1646

<211> 314

<212> PRT

<213> Unknown (H38g563 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(314)
 <223> Xaa = Any Amino Acid

<400> 1646

```

Met Ser Thr His Arg Met Glu Ile Ser Gln Cys Val Pro Leu Trp Glu
 1           5           10           15
Ser Met Leu Lys Gly Leu Glu Gly Gly Leu Glu Asn Gln Ala Leu Leu
      20           25           30
Phe Ala Val Phe Pro Gly Leu Tyr Met Val Thr Ile Pro Gly Asn Leu
      35           40           45
Thr Met Thr Met Val Ile Ile Leu Asp Thr His Leu His Phe Pro Val
      50           55           60
Asn Phe Phe Leu Gly Ala Ser Pro Phe Leu Asp Leu Gly His Ala Ser
65           70           75           80
Ile Ile Pro Asn Ala Leu Val Asn Phe Ser Ser Ser Ser Lys Val Val
      85           90           95
Thr Phe Ala Gly Cys Ala Ala Arg Phe Phe Phe Ser Leu Leu Ser Thr
      100          105          110
Thr Glu Thr Phe Leu Leu Ala Val Met Ala Tyr Asp Cys Phe Val Ala
      115          120          125
Ile Cys Ser Leu Val Trp Cys Pro Val Thr Thr Cys Leu Ser Ile Cys
130          135          140
Ile Ile Leu Gly Pro Gly Thr Tyr Cys Arg Val Cys Leu Ser Ser Ile
145          150          155          160
Val Gln Thr Gly Leu Met Phe Gln Leu Pro Ser Ala Gly Thr Asn His
      165          170          175
Ile Asp His Tyr Cys Asp Met Pro Gln Leu Leu Arg Leu Ala Cys Ala
      180          185          190
Cys Leu Ala Leu Asn Glu Leu Thr Lys Phe Ser Leu Cys Gly Leu Met
      195          200          205
Met Val Asn Ala Thr Leu Val Val Leu Val Ser Phe Gly Cys Val Thr
210          215          220
Val Thr Ile Leu Arg Thr Pro Ser Gly Ser Gln Xaa His Lys Val Phe
225          230          235          240
Thr Cys Ser Ser His Val Met Thr Val Ser Leu Phe Asp Gly Thr Val
      245          250          255
Phe Val Thr Tyr Ala Gln Pro Gly Thr Met Glu Ser Met Glu Gln Gly
      260          265          270
Lys Val Val Ser Val Phe Tyr Ser Leu Val Ile Pro Met Leu Gly Pro
      275          280          285
Phe Ile Tyr Ser Leu Arg Asn Lys Asp Met Lys Glu Ala Leu Arg Arg
290          295          300
Leu Gly Gln Arg Gln Ala Leu Met Gly Arg
305          310

```

<210> 1647

<211> 252

<212> PRT

<213> Unknown (H38g564 protein)

<220>

<223> Synthetic construct

<400> 1647

```

Met Tyr Phe Phe Leu Gly Asn Leu Ser Phe Cys Asp Ile Cys Tyr Ser
 1           5           10           15
Thr Val Phe Ala Pro Lys Met Leu Val Asn Phe Leu Ser Lys His Lys
      20           25           30
Ser Ser Thr Phe Ser Gly Cys Val Leu Gln Ser Phe Pro Phe Ala Val
      35           40           45
Tyr Val Thr Thr Lys Asp Ile Leu Leu Ser Met Met Ala Tyr Asp His

```

```

      50      55      60
Tyr Val Ala Ile Ala Asn Pro Leu Leu Tyr Thr Val Ile Met Ala Gln
65      70      75      80
Lys Val Cys Ile Gln Met Val Leu Ala Ser Tyr Leu Gly Gly Leu Ile
      85      90      95
Asn Ser Leu Thr His Thr Ile Gly Leu Leu Lys Leu Asp Phe Cys Gly
      100      105      110
Pro Asn Ile Val Asn His Tyr Phe Cys Asp Val Pro Pro Leu Leu Arg
      115      120      125
Leu Ser Cys Ser Asp Ala His Ile Asn Glu Met Leu Pro Leu Val Phe
      130      135      140
Ser Gly Leu Ile Ala Met Phe Thr Phe Ile Val Ile Met Val Ser Tyr
145      150      155      160
Ile Cys Ile Ile Ile Ala Ile Gln Arg Ile His Ala Ala Glu Gly Arg
      165      170      175
Tyr Lys Ala Phe Ser Thr Cys Val Ser His Leu Thr Thr Val Thr Leu
      180      185      190
Phe Tyr Gly Ser Val Ser Phe Ser Tyr Ile Gln Pro Ser Ser Gln Tyr
      195      200      205
Ser Leu Glu Gln Glu Lys Val Leu Ala Val Phe Tyr Thr Leu Val Ile
      210      215      220
Pro Met Leu Asn Pro Leu Ile Tyr Ser Leu Arg Asn Lys Asp Val Lys
225      230      235      240
Asp Ala Ala Lys Arg Leu Ile Trp Trp Gly Glu Lys
      245      250

```

<210> 1648

<211> 319

<212> PRT

<213> Unknown (H38g565 protein)

<220>

<223> Synthetic construct

<400> 1648

```

Met Ser Gly Glu Asn Val Thr Arg Val Gly Thr Phe Ile Leu Val Gly
1      5      10      15
Phe Pro Thr Ala Pro Gly Leu Gln Tyr Leu Leu Phe Leu Leu Phe Leu
      20      25      30
Leu Thr Tyr Leu Phe Val Leu Val Glu Asn Leu Ala Ile Ile Leu Thr
      35      40      45
Val Trp Ser Ser Thr Ser Leu His Arg Pro Met Tyr Tyr Phe Leu Ser
      50      55      60
Ser Met Ser Phe Leu Glu Ile Trp Tyr Val Ser Asp Ile Thr Pro Lys
65      70      75      80
Met Leu Glu Gly Phe Leu Leu Gln Gln Lys Arg Ile Ser Phe Val Gly
      85      90      95
Cys Met Thr Gln Leu Tyr Phe Phe Ser Ser Leu Val Cys Thr Glu Cys
      100      105      110
Val Leu Leu Ala Ser Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys His
      115      120      125
Pro Leu Arg Tyr His Val Leu Val Thr Pro Gly Cys Ala Ser Arg Leu
      130      135      140
Val Gly Phe Ser Phe Val Ser Gly Phe Thr Ile Ser Met Ile Lys Val
145      150      155      160
Cys Phe Ile Ser Ser Val Thr Phe Cys Gly Ser Asn Val Leu Asn His
      165      170      175
Phe Phe Cys Asp Ile Ser Pro Ile Leu Lys Leu Ala Cys Thr Asp Phe
      180      185      190
Ser Thr Ala Glu Leu Val Asp Phe Ile Leu Ala Phe Ile Ile Leu Val
      195      200      205

```

Phe Pro Leu Leu Ala Thr Met Leu Ser Tyr Ala His Ile Thr Leu Ala
 210 215 220
 Val Leu Arg Ile Pro Ser Pro Arg Gly Cys Trp Arg Ala Phe Phe Thr
 225 230 235 240
 Cys Ala Ser His Leu Thr Val Val Thr Val Phe Tyr Thr Ala Leu Leu
 245 250 255
 Phe Met Tyr Val Arg Pro Arg Pro Leu Tyr Ser Arg Ser Ser Asn Lys
 260 265 270
 Leu Ile Ser Val Leu Tyr Thr Val Ile Thr Pro Ile Leu Asn Pro Leu
 275 280 285
 Ile Tyr Cys Leu Arg Asn Lys Glu Phe Lys Asn Ala Leu Lys Asn Ser
 290 295 300
 Arg Leu Asp Asp Cys Ala Val Glu Gly Arg Leu Ser Ser Leu Leu
 305 310 315

<210> 1649

<211> 320

<212> PRT

<213> Unknown (H38g566 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(320)

<223> Xaa = Any Amino Acid

<400> 1649

Met Ala Asp Val Asn Phe Thr Leu Val Thr Glu Phe Ile Leu Leu Glu
 1 5 10 15
 Leu Thr Asp Arg Ala Glu Leu Lys Met Val Leu Phe Val Leu Phe Leu
 20 25 30
 Leu Ile Tyr Thr Ile Ser Leu Val Gly Asn Ile Gly Met Leu Phe Leu
 35 40 45
 Ile Tyr Val Thr Pro Lys Leu His Thr Pro Met Tyr Tyr Phe Leu Ser
 50 55 60
 Cys Leu Ser Phe Val Asp Ala Cys Tyr Ser Ser Val Phe Ala Pro Arg
 65 70 75 80
 Met Leu Leu Asn Phe Phe Val Glu Arg Glu Thr Ile Leu Phe Ser Ala
 85 90 95
 Cys Ile Val Gln Tyr Phe Leu Phe Val Ser Leu Leu Thr Thr Glu Gly
 100 105 110
 Phe Leu Leu Ala Thr Met Ala Tyr Asp Arg Tyr Met Ala Ile Val Asn
 115 120 125
 Pro Leu Leu Tyr Thr Val Ala Met Thr Lys Ile Val Cys Ile Val Leu
 130 135 140
 Ala Phe Gly Ser Cys Met Gly Gly Leu Ile Asn Ser Leu Thr His Thr
 145 150 155 160
 Ile Gly Leu Val Lys Leu Ser Phe Cys Gly Pro Asn Val Ile Ser His
 165 170 175
 Phe Phe Cys Asp Leu Pro Pro Leu Leu Lys Leu Ser Cys Ser Glu Thr
 180 185 190
 Ser Met Asn Glu Leu Leu Leu Ile Phe Ser Gly Ile Ile Ala Thr
 195 200 205
 Leu Thr Phe Leu Thr Val Val Ile Ser Tyr Ile Phe Ile Val Ala Ala
 210 215 220
 Ile Leu Arg Ile Arg Xaa Ala Ala Gly Arg Arg Lys Ala Phe Ser Thr
 225 230 235 240
 Cys Thr Ser His Leu Ile Thr Val Thr Leu Phe Tyr Gly Ser Ile Ser
 245 250 255
 Phe Ser Tyr Ile Gln Pro Asn Ser Gln Tyr Ser Leu Glu Gln Glu Lys

```
<210> 1650
<211> 313
<212> PRT
<213> Unknown (H38g567 protein)
```

<220>
<223> Synthetic construct

```
<221> VARIANT
<222> (1)...(313)
<223> Xaa = Any Amino Acid
```

| | | | | | | | | | | | | | | | |
|------------|------------|------------|-----------|------------|------------|------------|------------|------------|-----------|------------|------------|-----------|------------|-----------|-----|
| <400> | 1650 | | | | | | | | | | | | | | |
| Met 1 | Leu | Gly | Asn | Tyr 5 | Ser | Ser | Ala | Thr | Glu 10 | Phe | Phe | Leu | Leu | Gly 15 | Phe |
| Pro | Gly | Ser | Gln 20 | Glu | Val | Arg | Arg | Ile 25 | Leu | Phe | Val | Asn 30 | Phe | Phe | Phe |
| Leu | Tyr | Ala 35 | Val | Thr | Val | Met | Gly 40 | Asn | Thr | Val | Ile 45 | Val | Thr | Val | |
| Cys 50 | Val | Asp | Lys | His | Leu | Gln 55 | Ser | Pro | Met | Tyr | Phe 60 | Phe | Leu | Gly | His |
| Leu 65 | Cys | Val | Leu | Glu 70 | Ile | Leu | Ile | Thr | Ser | Thr 75 | Ala | Ala | Pro | Phe | Met |
| Leu | Trp | Gly | Leu 85 | Leu | Leu | Pro | Ser | Thr | Gln 90 | Ile | Met | Ser | Leu | Thr 95 | Ala |
| Cys | Ala | Ala 100 | Gln | Leu | Leu | Tyr | Leu | Ser 105 | Leu | Gly | Thr | Ser | Glu 110 | Leu | Ala |
| Leu | Met | Gly 115 | Val | Met | Ala | Val | Asp 120 | His | Tyr | Val | Ala 125 | Val | Cys | Asn | Pro |
| Leu | Arg 130 | Tyr | Asn | Ile | Ile | Met 135 | Asn | Ser | Ser | Thr | Cys 140 | Val | Trp | Met | Val |
| Ile 145 | Val | Ser | Trp | Val 150 | Phe | Gly | Phe | Leu | Phe | Gln 155 | Ile | Trp | Pro | Val | Tyr |
| Ala | Thr | Phe 165 | Gln | Leu | Thr | Phe | Cys | Lys 170 | Ser | Asn | Val | Leu | Asp 175 | His | Phe |
| Tyr | Cys | Asp 180 | Xaa | Gly | Gln | Leu | Leu | Lys 185 | Val | Ser | Cys | Glu | Asp 190 | Thr | Leu |
| Phe | Thr 195 | Glu | Phe | Ile | Leu | Phe 200 | Leu | Met | Ala | Val | Phe 205 | Ile | Ile | Ile | Gly |
| Ser | Leu 210 | Ile | Pro | Thr | Ile | Val 215 | Ser | Tyr | Thr | Tyr | Ile 220 | Ile | Ser | Thr | Ile |
| Leu 225 | Lys | Ile | Pro | Leu | Ala 230 | Ser | Gly | Trp | Arg | Lys 235 | Ser | Phe | Ser | Thr | Cys |
| Ala | Ser | His 245 | Phe | Thr | Cys | Val | Val | Ile 250 | Gly | Tyr | Ser | Ser | Cys 255 | Leu | Phe |
| Leu | Tyr | Thr 260 | Lys | Pro | Lys | Gln | Thr | Gln 265 | Ala | Ala | Lys | Tyr | Asn 270 | Arg | Ile |
| Ala | Ser 275 | Leu | Leu | Val | Leu | Val 280 | Val | Thr | Pro | Phe | Leu 285 | Asn | Pro | Phe | Ile |
| Phe | Thr 290 | Leu | Arg | Asn | Asp | Lys 295 | Phe | Ile | Gln | Ala | Phe 300 | Gly | Asp | Gly | Met |
| Lys 305 | His | Cys | Tyr | Gln 310 | Leu | Leu | Arg | Ile | | | | | | | |

<210> 1651
 <211> 314
 <212> PRT
 <213> Unknown (H38g568 protein)

<220>
 <223> Synthetic construct

<221> VARIANT
 <222> (1)...(314)
 <223> Xaa = Any Amino Acid

<400> 1651
 Ile Xaa Met Ala Asp Arg Asn Val Thr Val Ile Thr Glu Phe Ile Leu
 1 5 10 15
 Leu Gly Leu Thr Asp Asn Pro Glu Met Asn Val Val Leu Ser Val Leu
 20 25 30
 Phe Leu Leu Ile Tyr Leu Ile Thr Val Leu Gly Asn Phe Trp Ile Ile
 35 40 45
 Ile Ile Ile Leu Ala Ser Ala Gln Leu His Ser Pro Met Tyr Phe Phe
 50 55 60
 Leu Ser Gln Leu Ala Phe Leu Asp Phe Cys Tyr Ser Ser Val Leu Ile
 65 70 75 80
 Pro Lys Met Leu Val Asn Tyr Ile Ala Gly Gln Lys Val Ile Ser Tyr
 85 90 95
 His Gly Cys Leu Leu Gln Tyr Ser Phe Val Ser Leu Phe Leu Thr Thr
 100 105 110
 Glu Cys Phe Leu Leu Ala Ala Met Ala Cys Asp Arg Tyr Leu Ala Val
 115 120 125
 Cys His Pro Leu His Tyr Lys Gly Leu Met Thr Pro Thr Phe Xaa Ile
 130 135 140
 Tyr Leu Val Thr Val Ser Tyr Leu Leu Gly Ser Val Asn Ser Leu Thr
 145 150 155 160
 His Leu Ser Ser Leu Ser Leu Ser Phe Cys Gly Ser Asn Val Ile
 165 170 175
 Asn Arg Tyr Phe Cys Asp Ile Pro Leu Leu Phe Gln Leu Ser Cys Ser
 180 185 190
 Asn Thr Gln His Ser Lys Ile Leu Phe Thr Val Leu Ser Gly Ala Thr
 195 200 205
 Ser Val Thr Thr Phe Leu Ile Val Val Ser Ser Tyr Leu Val Ile Leu
 210 215 220
 Leu Ile Val Leu Lys Ile His Ser Thr Arg Gly Arg Asn Lys Ala Ile
 225 230 235 240
 Ser Thr Cys Ala Ser His Leu Met Val Val Thr Leu Phe Tyr Arg Thr
 245 250 255
 Val Ile Phe Thr Tyr Leu Gly Ala Asn Pro Gly Tyr Ser Gln Asp Arg
 260 265 270
 Pro Lys Ile Leu Pro Val Glu Cys Thr Leu Leu Leu Ser Ile Leu Asn
 275 280 285
 Leu Leu Ile Tyr Ser Val Arg Asn Arg Glu Val Lys Glu Ala Ile Lys
 290 295 300
 Ile Ile Ile Lys Arg Lys Ile Leu Pro Gln
 305 310

<210> 1652
 <211> 314
 <212> PRT
 <213> Unknown (H38g569 protein)

<220>

<223> Synthetic construct

<400> 1652

```

Met Leu Met Asn Tyr Ser Ser Ala Thr Glu Phe Tyr Leu Leu Gly Phe
 1           5           10           15
Pro Gly Ser Glu Glu Leu His His Ile Leu Phe Ala Ile Phe Phe
 20           25           30
Phe Tyr Leu Val Thr Leu Met Gly Asn Thr Val Ile Ile Met Ile Val
 35           40           45
Cys Val Asp Lys Arg Leu Gln Ser Pro Met Tyr Phe Phe Leu Gly His
 50           55           60
Leu Ser Ala Leu Glu Ile Leu Val Thr Thr Ile Ile Val Pro Val Met
 65           70           75
Leu Trp Gly Leu Leu Leu Pro Gly Met Gln Thr Ile Tyr Leu Ser Ala
 85           90           95
Cys Val Val Gln Leu Phe Leu Tyr Leu Ala Val Gly Thr Thr Glu Phe
 100          105          110
Ala Leu Leu Gly Ala Met Ala Val Asp Arg Tyr Val Ala Val Cys Asn
 115          120          125
Pro Leu Arg Tyr Asn Ile Ile Met Asn Arg His Thr Cys Asn Phe Val
 130          135          140
Val Leu Val Ser Trp Val Phe Gly Phe Leu Phe Gln Ile Trp Pro Val
 145          150          155
Tyr Val Met Phe Gln Leu Thr Tyr Cys Lys Ser Asn Val Val Asn Asn
 165          170          175
Phe Phe Cys Asp Arg Gly Gln Leu Leu Lys Leu Ser Cys Asn Asn Thr
 180          185          190
Leu Phe Thr Glu Phe Ile Leu Phe Leu Met Ala Val Phe Val Leu Phe
 195          200          205
Gly Ser Leu Ile Pro Thr Ile Val Ser Asn Ala Tyr Ile Ile Ser Thr
 210          215          220
Ile Leu Lys Ile Pro Ser Ser Ser Gly Arg Arg Lys Ser Phe Ser Thr
 225          230          235
Cys Ala Ser His Phe Thr Cys Val Val Ile Gly Tyr Gly Ser Cys Leu
 245          250          255
Phe Leu Tyr Val Lys Pro Lys Gln Thr Gln Ala Ala Asp Tyr Asn Trp
 260          265          270
Val Val Ser Leu Met Val Ser Val Val Thr Pro Phe Leu Asn Pro Phe
 275          280          285
Ile Phe Thr Leu Arg Asn Asp Lys Val Ile Glu Ala Leu Arg Asp Gly
 290          295          300
Val Lys Arg Cys Cys Gln Leu Phe Arg Asn
 305          310

```

<210> 1653

<211> 312

<212> PRT

<213> Unknown (H38g570 protein)

<220>

<223> Synthetic construct

<400> 1653

```

Met Met Gly Arg Arg Asn Asp Thr Asn Val Ala Asp Phe Ile Leu Thr
 1           5           10           15
Gly Leu Ser Asp Ser Glu Glu Val Gln Met Ala Leu Phe Met Leu Phe
 20           25           30
Leu Leu Ile Tyr Leu Ile Thr Met Leu Gly Asn Val Gly Met Leu Leu
 35           40           45
Ile Ile Arg Leu Asp Leu Gln Leu His Thr Pro Met Tyr Phe Phe Leu
 50           55           60

```


Thr His Leu Ser Phe Ile Asp Leu Ser Tyr Ser Thr Val Val Thr Pro
 65 70 75 80
 Lys Thr Leu Ala Asn Leu Leu Thr Ser Asn Tyr Ile Ser Phe Thr Gly
 85 90 95
 Cys Phe Ala Gln Met Phe Cys Phe Val Phe Leu Gly Thr Ala Glu Cys
 100 105 110
 Tyr Leu Leu Ser Ser Met Ala Tyr Asp Arg Tyr Ala Ala Ile Cys Ser
 115 120 125
 Pro Leu His Tyr Thr Val Ile Met Pro Lys Arg Leu Cys Leu Ala Leu
 130 135 140
 Ile Thr Gly Pro Tyr Val Ile Gly Phe Met Asp Ser Phe Val Asn Val
 145 150 155 160
 Val Ser Met Ser Arg Leu His Phe Cys Asp Ser Asn Ile Ile His His
 165 170 175
 Phe Phe Cys Asp Thr Ser Pro Ile Leu Ala Leu Ser Cys Thr Asp Thr
 180 185 190
 Asp Asn Thr Glu Met Leu Ile Phe Ile Ile Ala Gly Ser Thr Leu Met
 195 200 205
 Val Ser Leu Ile Thr Ile Ser Ala Ser Tyr Val Ser Ile Leu Ser Thr
 210 215 220
 Ile Leu Lys Ile Asn Ser Thr Ser Gly Lys Gln Lys Ala Phe Ser Thr
 225 230 235 240
 Cys Val Ser His Leu Leu Gly Val Thr Ile Phe Tyr Gly Thr Met Ile
 245 250 255
 Phe Thr Tyr Leu Lys Pro Arg Lys Ser Tyr Ser Leu Gly Arg Asp Gln
 260 265 270
 Val Ala Pro Val Phe Tyr Thr Ile Val Ile Pro Met Leu Asn Pro Leu
 275 280 285
 Ile Tyr Ser Leu Arg Asn Arg Glu Val Lys Asn Ala Leu Ile Arg Val
 290 295 300
 Met Gln Arg Arg Gln Asp Ser Arg
 305 310

<210> 1654

<211> 245

<212> PRT

<213> Unknown (H38g571 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(245)

<223> Xaa = Any Amino Acid

<400> 1654

Met Ser Xaa Xaa Ile Phe Cys Leu Pro Lys Ile Ile Ile Thr Leu Leu
 1 5 10 15
 Gln Xaa Glu Trp Asp Ala Leu Asn Leu Glu Thr Arg Val Phe Leu Glu
 20 25 30
 Glu Asp Phe Pro Cys Gly Phe Ser Leu Trp Ile Val Arg Gln Leu Ser
 35 40 45
 Phe Phe Leu Glu Ile Asn Xaa Phe Ala His Leu Lys Lys Xaa Cys Arg
 50 55 60
 Lys His Thr Ser Thr Phe Ser Leu Ser Asn Leu Ala Phe Xaa Asp Phe
 65 70 75 80
 Cys Tyr Ala Ser Val Ile Thr Ser Lys Met Phe Gly Ser Phe Leu Tyr
 85 90 95
 Lys Gln Lys Lys Leu Thr Phe Asn Ala Leu Gly Cys Ser Leu Thr Phe
 100 105 110
 Met Thr Thr Glu Cys Leu Leu Leu Ala Phe Met Ala Cys Asp Gln Tyr

| | | |
|---|-------------------------------------|-----|
| 115 | 120 | 125 |
| Leu Val Ile Cys Asn Pro Pro | Leu Tyr Met Val Thr Met Ser Pro Pro | |
| 130 | 135 | 140 |
| Gln Gly Val Cys Ile Gln Leu Met Pro Ala Ser Tyr Ser Tyr Ser Phe | | |
| 145 | 150 | 155 |
| Leu Met Thr Leu Ser His Tyr Leu Ser Ala Phe Arg Leu Pro Tyr Cys | | 160 |
| 165 | 170 | 175 |
| Pro Ser Val Ser Leu Met Phe Asn Gly Ser Leu Phe Leu Tyr Cys Thr | | |
| 180 | 185 | 190 |
| Xaa Cys Ser Glu Asn Ser Leu Asp Thr Asp Arg Met Ala Ser Val Phe | | |
| 195 | 200 | 205 |
| Tyr Thr Val Val Ile Pro Met Leu Ser Pro Leu Ile Trp Ser Leu Arg | | |
| 210 | 215 | 220 |
| Asn Lys Asp Val Lys Asp Ala Leu Arg Lys Val Ile Val Asn Arg Asn | | |
| 225 | 230 | 235 |
| Gln Ala Leu Phe Cys | | 240 |
| 245 | | |

<210> 1655

<211> 312

<212> PRT

<213> Unknown (H38g572 protein)

<220>

<223> Synthetic construct

<400> 1655

| | |
|---|-----|
| Met Ala Pro Glu Asn Phe Thr Arg Val Thr Glu Phe Ile Leu Thr Gly | |
| 1 | 5 |
| Val Ser Ser Cys Pro Glu Leu Gln Ile Pro Leu Phe Leu Val Phe Leu | 10 |
| 20 | 25 |
| Val Leu Tyr Val Leu Thr Met Ala Gly Asn Leu Gly Ile Ile Thr Leu | 30 |
| 35 | 40 |
| Thr Ser Val Asp Ser Arg Leu Gln Thr Pro Met Tyr Phe Phe Leu Arg | 45 |
| 50 | 55 |
| His Leu Ala Ile Ile Asn Leu Gly Asn Ser Thr Val Ile Ala Pro Lys | 60 |
| 65 | 70 |
| Met Leu Met Asn Phe Leu Val Lys Lys Lys Thr Thr Ser Phe Tyr Glu | 75 |
| 85 | 90 |
| Cys Ala Thr Gln Leu Gly Gly Phe Leu Phe Phe Ile Val Ser Glu Val | 95 |
| 100 | 105 |
| Met Met Leu Ala Val Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Asn | 110 |
| 115 | 120 |
| Pro Leu Leu Tyr Met Val Val Ser Arg Arg Leu Cys Leu Leu Leu | 125 |
| 130 | 135 |
| Val Ser Leu Thr Tyr Leu Tyr Gly Phe Ser Thr Ala Ile Val Val Ser | 140 |
| 145 | 150 |
| Pro Cys Ile Phe Ser Val Ser Tyr Cys Ser Ser Asn Ile Ile Asn His | 155 |
| 165 | 170 |
| Phe Tyr Cys Asp Ile Ala Pro Leu Leu Ala Leu Ser Cys Ser Asp Thr | 175 |
| 180 | 185 |
| Tyr Ile Pro Glu Thr Ile Val Phe Ile Ser Ala Ala Thr Asn Leu Phe | 190 |
| 195 | 200 |
| Phe Ser Met Ile Thr Val Leu Val Ser Tyr Phe Asn Ile Val Leu Ser | 205 |
| 210 | 215 |
| Ile Leu Arg Ile Arg Ser Pro Glu Gly Arg Lys Lys Ala Phe Ser Thr | 220 |
| 225 | 230 |
| Cys Ala Ser His Met Ile Ala Val Thr Val Phe Tyr Gly Thr Met Leu | 235 |
| 245 | 250 |
| Phe Met Tyr Leu Gln Pro Gln Thr Asn His Ser Leu Asp Thr Asp Lys | 255 |
| 260 | 265 |
| | 270 |

Met Ala Ser Val Phe Tyr Thr Leu Val Ile Pro Met Leu Asn Pro Leu
 275 280 285
 Ile Tyr Ser Leu Arg Asn Asn Asp Val Asn Val Ala Leu Lys Lys Phe
 290 295 300
 Met Glu Asn Pro Cys Tyr Ser Phe
 305 310

<210> 1656
 <211> 161
 <212> PRT
 <213> Unknown (H38g573 protein)

<220>
 <223> Synthetic construct

<221> VARIANT
 <222> (1)...(161)
 <223> Xaa = Any Amino Acid

<400> 1656
 Ile Cys Gly Ser His Ser Gly Val Thr Glu Phe Cys Leu Leu Gly Phe
 1 5 10 15
 Pro Gly Ser Gln Xaa Val Cys His Leu Leu Pro Ser Ser Phe Val Ser
 20 25 30
 Ile Val Ile Arg Asn Tyr Val Ile Ile Val Cys Val Glu Lys Cys
 35 40 45
 Leu Leu Phe Leu Leu Tyr Leu Phe Tyr Gly Asp Leu Ser Val Met Glu
 50 55 60
 Ile Leu Ile Thr Tyr Thr Ala Val Pro Leu Met Leu Arg Gly Cys Tyr
 65 70 75 80
 Phe Pro Xaa Phe Lys Gln Tyr Leu Xaa Xaa His Val Ser Val Gln Leu
 85 90 95
 Tyr Met Asn Phe Phe Gly Gly Thr Gln Glu Phe Ala Leu Leu Gly Val
 100 105 110
 Met Thr Val Asn His Tyr Val Ala Leu Cys Asn Ser Leu Lys Xaa Asn
 115 120 125
 Ile Ile Met Ser Ser Thr His Cys Ile Trp Leu Val Ile Val Leu Leu
 130 135 140
 Ile Gly Phe Leu Ser Glu Ile Trp Ser Val Tyr Ala Thr Phe Gln Leu
 145 150 155 160
 Pro

<210> 1657
 <211> 324
 <212> PRT
 <213> Unknown (H38g574 protein)

<220>
 <223> Synthetic construct

<221> VARIANT
 <222> (1)...(324)
 <223> Xaa = Any Amino Acid

<400> 1657
 His Thr Glu Pro Arg Asn Leu Thr Gly Val Xaa Glu Phe Leu Leu Leu
 1 5 10 15
 Gly Leu Ser Glu Asp Pro Glu Leu Gln Pro Val Leu Ala Leu Leu Ser
 20 25 30
 Leu Ser Leu Ser Met Tyr Leu Val Thr Val Leu Arg Asn Leu Leu Ser

| | | | | | | | | | | | | | | | |
|------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| <400> 1658 | | | | | | | | | | | | | | | |
| His | Thr | Lys | Pro | Arg | Asn | Leu | Thr | Gly | Val | Xaa | Glu | Phe | Leu | Leu | Leu |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |
| Gly | Leu | Ser | Glu | Asp | Pro | Glu | Leu | Gln | Pro | Ile | Leu | Ala | Gly | Leu | Ser |
| | | | 20 | | | | | 25 | | | | | 30 | | |
| Leu | Ser | Met | Tyr | Leu | Val | Thr | Val | Leu | Arg | Asn | Leu | Leu | Ile | Ile | Leu |
| | | 35 | | | | | 40 | | | | | 45 | | | |
| Ala | Val | Ser | Ser | Asp | Ser | His | Leu | His | Thr | Pro | Met | Cys | Phe | Phe | Leu |
| | 50 | | | | | 55 | | | | | 60 | | | | |
| Ser | Asn | Leu | Cys | Trp | Ala | Asp | Ile | Gly | Phe | Thr | Ser | Ala | Thr | Val | Pro |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |

Lys Met Ile Val Asp Met Gln Ser His Ser Arg Val Ile Ser Tyr Glu
 85 90 95
 Gly Cys Leu Thr Arg Met Ser Phe Leu Val Leu Phe Ala Cys Thr Glu
 100 105 110
 Asp Met Leu Leu Thr Val Met Ala Tyr Asp Cys Phe Val Ala Ile Cys
 115 120 125
 Arg Pro Leu His Tyr Pro Val Ile Val Asn Pro His Leu Cys Val Phe
 130 135 140
 Phe Ile Leu Val Ser Phe Phe Leu Ser Leu Leu Asp Ser Gln Leu His
 145 150 155 160
 Ser Xaa Val Val Leu Gln Phe Thr Phe Phe Asn Asn Val Glu Ile Ser
 165 170 175
 Asn Phe Val Cys Glu Pro Ser Gln Leu Val Asn Leu Ala Ser Ser Asp
 180 185 190
 Ser Val Val Asn Ser Ile Phe Ile Tyr Phe Asp Ser Thr Met Phe Gly
 195 200 205
 Phe Leu Pro Ile Leu Gly Val Leu Leu Ser His Tyr Lys Ile Val Pro
 210 215 220
 Ser Ile Leu Arg Ile Ser Ser Ser Asp Gly Lys Tyr Lys Val Phe Ala
 225 230 235 240
 Thr Cys Gly Ser His Leu Ala Val Val Cys Xaa Phe Asp Gly Thr Gly
 245 250 255
 Ile Asp Met Tyr Leu Thr Ser Ala Val Ser Pro Pro His Arg Asn Gly
 260 265 270
 Val Val Ala Ser Val Met Tyr Ala Val Phe Thr Pro Met Leu Asn Pro
 275 280 285
 Phe Ile Tyr Ser Leu Arg Asn Arg Asp Ile Gln Ser Ala Leu Arg Arg
 290 295 300
 Leu Leu Ser Arg Thr Val Glu Ser His Asp Leu Phe His Pro Phe Ser
 305 310 315 320

<210> 1659

<211> 270

<212> PRT

<213> Unknown (H38g576 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(270)

<223> Xaa = Any Amino Acid

<400> 1659

Val Ser Leu Ile Thr Tyr Leu Ile Thr Val Met Ser Asn Leu Gly Met
 1 5 10 15
 Asn Ile Leu Thr Lys Leu Asp Ser His Leu Tyr Thr Pro Val Val Tyr
 20 25 30
 Phe Leu Ile Lys His Ile Phe Phe Ile Asp Phe Tyr Asn Cys Ile Val
 35 40 45
 Ile Tyr Thr Asn Lys Met Leu Asn Phe Val Val Asp Gln Asn Asn Ile
 50 55 60
 Ser Tyr Tyr Ala Cys Ala Thr His Met Thr Phe Phe Met Phe Ile Ile
 65 70 75 80
 Thr Glu Leu Leu Ile Leu Val Ser Met Ala Tyr Asp Cys Tyr Val Val
 85 90 95
 Asn Ser Asn Pro Leu Phe Tyr Ile Val Ile Met Cys Leu Xaa Leu Xaa
 100 105 110
 His Val Leu Met Ser Ile Pro Tyr Leu Cys Asn Thr Phe Gln Ser Leu
 115 120 125
 Ile Ile Thr Ile Asp Leu Phe Leu Thr Phe Cys Ser Phe Ile Ile Ser

| | | |
|---|-----|-----|
| 130 | 135 | 140 |
| His Phe Tyr Cys Tyr Asp Val Leu Phe Phe His Met Leu Cys Ser Asn | | |
| 145 | 150 | 155 |
| Ala Gln Glu Arg Glu Leu Leu Ile Thr Leu Leu Thr Ala Phe Asn Leu | | |
| | 165 | 170 |
| Ile Pro Ser Leu Leu Val Leu Leu Val Leu Asn Ile Leu Ile Leu Leu | | |
| | 180 | 185 |
| Ala Ile Cys Xaa Met His Ser Ala Leu Gly Arg Lys Lys Ala Phe Ser | | |
| | 195 | 200 |
| Met Cys Gly Ser His Leu Thr Met Val Val Met Phe Tyr Gly Ser Leu | | |
| | 210 | 215 |
| Leu Phe Asp Met Asp Lys Val Ala Ser Leu Phe Tyr Thr Leu Met Ile | | |
| 225 | 230 | 235 |
| Leu Arg Phe Asn Leu Leu Ile Tyr Ser Phe Ser Asn Leu Gly Val Lys | | |
| | 245 | 250 |
| Asn Val Phe Tyr Arg Val Phe Lys Asn Xaa Cys Lys Leu Cys | | |
| | 260 | 265 |
| | | 270 |

<210> 1660

<211> 128

<212> PRT

<213> Unknown (H38g577 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(128)

<223> Xaa = Any Amino Acid

<400> 1660

| | | |
|---|-----|-----|
| Met Gly Gly Lys Gln Pro Trp Val Thr Glu Phe Ile Leu Val Gly Phe | | |
| 1 | 5 | 10 |
| Gln Leu Cys Ala Glu Met Glu Ile Phe Leu Ser Cys Ile Phe Ser Arg | | |
| | 20 | 25 |
| Phe Tyr Ala Phe Ser Leu Leu Arg Asn Gly Met Asn Met Gly Leu Thr | | |
| | 35 | 40 |
| Tyr Leu Asp Asp Arg Asp Asp Arg Leu His Thr Leu Ile Tyr Ile Phe | | |
| | 50 | 55 |
| Leu Ser His Leu Ala Ile Asn Asp Met Tyr Tyr Ala Ser Asn Asn Val | | |
| 65 | 70 | 75 |
| Pro Lys Arg Gln Val Asn Gln Met Asn Gln Lys Lys Lys Asn Phe Val | | |
| | 85 | 90 |
| Leu Trp Ile Lys Gln Ile Phe Leu Tyr Leu Ala Phe Ala His Thr Glu | | |
| | 100 | 105 |
| Cys Leu Ile Xaa Ala Met Met Ser Cys Asn Arg Tyr Val Ala Ile Cys | | |
| | 115 | 120 |
| | | 125 |

<210> 1661

<211> 307

<212> PRT

<213> Unknown (H38g578 protein)

<220>

<223> Synthetic construct

<400> 1661

| | | |
|---|----|----|
| Met Gly Gln His Asn Leu Thr Val Leu Thr Glu Phe Ile Leu Met Glu | | |
| 1 | 5 | 10 |
| Leu Thr Arg Arg Pro Glu Leu Gln Ile Pro Leu Phe Gly Val Phe Leu | | |
| | 20 | 25 |
| | | 30 |

Val Ile Tyr Leu Ile Thr Val Val Gly Asn Leu Thr Met Ile Ile Leu
 35 40 45
 Thr Lys Leu Asp Ser His Leu His Thr Pro Met Tyr Phe Ser Ile Arg
 50 55 60
 His Leu Ala Ser Val Asp Leu Gly Asn Ser Thr Val Ile Cys Pro Lys
 65 70 75 80
 Val Leu Ala Asn Phe Val Val Asp Arg Asn Thr Ile Ser Tyr Tyr Ala
 85 90 95
 Cys Ala Ala Gln Leu Ala Phe Phe Leu Met Phe Ile Ile Ser Glu Phe
 100 105 110
 Phe Ile Leu Ser Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Asn
 115 120 125
 Pro Leu Leu Tyr Tyr Val Ile Met Ser Gln Arg Leu Cys His Val Leu
 130 135 140
 Val Gly Ile Gln Tyr Leu Tyr Ser Thr Phe Gln Ala Leu Met Phe Thr
 145 150 155 160
 Ile Lys Ile Phe Thr Leu Thr Phe Cys Gly Ser Asn Val Ile Ser His
 165 170 175
 Phe Tyr Cys Asp Asp Val Pro Leu Leu Pro Met Leu Cys Ser Asn Ala
 180 185 190
 Gln Glu Ile Glu Leu Leu Ser Ile Leu Phe Ser Val Phe Asn Leu Ile
 195 200 205
 Ser Ser Phe Leu Ile Val Leu Val Ser Tyr Met Leu Ile Leu Leu Ala
 210 215 220
 Ile Cys Gln Met His Ser Ala Glu Gly Arg Lys Lys Ala Phe Ser Thr
 225 230 235 240
 Cys Gly Ser His Leu Thr Val Val Val Val Phe Tyr Gly Ser Leu Leu
 245 250 255
 Phe Met Tyr Met Gln Pro Asn Ser Thr His Phe Phe Asp Thr Asp Lys
 260 265 270
 Met Ala Ser Val Phe Tyr Thr Leu Val Ile Pro Met Leu Asn Pro Leu
 275 280 285
 Ile Tyr Ser Leu Arg Asn Glu Glu Val Lys Asn Ala Phe Tyr Lys Leu
 290 295 300
 Phe Glu Asn
 305

<210> 1662

<211> 218

<212> PRT

<213> Unknown (H38g579 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(218)

<223> Xaa = Any Amino Acid

<400> 1662

Leu Pro Asp Ile Ser Phe Thr, Ser Thr Thr Val Pro Lys Met Ile Val
 1 5 10 15
 Asp Ile Gln Ser His Ser Arg Val Ile Ser Tyr Ala Gly Cys Leu Thr
 20 25 30
 Gln Met Ser Leu Phe Val Ile Phe Gly Gly Met Glu Glu Ser Met Leu
 35 40 45
 Leu Ser Val Met Ala Tyr Asp Trp Phe Val Ala Ile Cys His Pro Leu
 50 55 60
 Tyr His Ser Ala Ile Met Asn Pro Cys Phe Cys Gly Phe Leu Val Leu
 65 70 75 80
 Leu Ser Phe Phe Phe Ser Val Phe Xaa His Ala Gln Leu His Asn Leu

```
<210> 1663
<211> 227
<212> PRT
<213> Unknown (H38g580 protein)
```

```
<220>
<223> Synthetic construct

<221> VARIANT
<222> (1)...(227)
<223> Xaa = Any Amino Acid
```

908

<210> 1664
 <211> 194
 <212> PRT
 <213> Unknown (H38g581 protein)

<220>
 <223> Synthetic construct

<400> 1664

```

Tyr Phe Phe Leu Ser Asn Leu Ser Phe Leu Asp Leu Cys Phe Thr Ile
 1           5           10           15
Ser Cys Val Pro Gly Met Leu Val Asn Leu Trp Glu Pro Lys Lys Thr
           20           25           30
Ile Ile Leu Leu Gly Cys Ser Val Gln Phe Phe Ile Phe Leu Ser Leu
           35           40           45
Gly Thr Thr Glu Cys Ile Leu Leu Thr Val Met Ala Phe Asp Arg Tyr
           50           55           60
Met Ala Ile Cys Gln Pro Leu His Tyr Ala Thr Ile Val His Pro Leu
65           70           75           80
Leu Cys Trp Gln Leu Ala Ser Val Ala Trp Val Met Ser Leu Val Glu
           85           90           95
Ser Val Val Gln Thr Pro Ser Thr Leu His Leu Pro Phe Cys Pro Asp
           100          105          110
Arg Gln Val Asp Asp Phe Val Cys Glu Val Pro Ala Leu Ile Arg Leu
           115          120          125
Ser Cys Glu Asp Thr Ser Tyr Asn Glu Ile Gln Leu Ala Val Ala Ser
130          135          140
Val Phe Ile Leu Ala Val Pro Leu Ser Leu Ile Leu Val Ser Tyr Gly
145          150          155          160
Ala Ile Ala Trp Ala Val Leu Arg Thr Asn Ser Ala Lys Gly Gln Arg
           165          170          175
Lys Ala Phe Gly Thr Cys Ser Ser His Leu Thr Val Val Thr Leu Phe
           180          185          190
Tyr Ser

```

<210> 1665
 <211> 320
 <212> PRT
 <213> Unknown (H38g582 protein)

<220>
 <223> Synthetic construct

<221> VARIANT
 <222> (1)...(320)
 <223> Xaa = Any Amino Acid

<400> 1665

```

Met Val Ser Ser Asn Gln Thr Ser Pro Val Leu Gly Phe Leu Leu Leu
 1           5           10           15
Gly Leu Ser Ala His Pro Lys Leu Glu Lys Thr Phe Phe Val Leu Ile
           20           25           30
Leu Leu Met Tyr Leu Val Ile Leu Leu Gly Asn Gly Val Leu Ile Leu
           35           40           45
Val Thr Ile Leu Asp Ser Arg Leu Asp Thr Pro Met Tyr Phe Phe Leu
           50           55           60
Gly Asn Leu Ser Phe Leu Asp Ile Cys Tyr Thr Thr Ser Ser Val Leu
65           70           75           80
Asp Ser Phe Leu Thr Pro Arg Lys Thr Ile Ser Phe Ser Ala Cys Ala

```

```
<210> 1666
<211> 318
<212> PRT
<213> Unknown (H38g583 protein)
```

<220>
<223> Synthetic construct

<400> 1666

| | | | | | | | | | | | | | | | |
|------------|-----------|------------|------------|------------|-----|------------|-----------|------------|-----------|------------|------------|------------|------------|-----------|-----|
| Met 1 | Val | Ser | Ala | Asn 5 | Gln | Thr | Ala | Ser | Val 10 | Thr | Glu | Phe | Ile | Leu 15 | Leu |
| Gly | Leu | Ser | Ala 20 | His | Pro | Lys | Leu | Glu 25 | Lys | Thr | Phe | Phe | Val 30 | Leu | Ile |
| Leu | Leu | Met 35 | Tyr | Leu | Val | Ile | Leu 40 | Leu | Gly | Asn | Gly | Val 45 | Leu | Ile | Leu |
| Met | Thr 50 | Val | Ser | Asn | Ser | His 55 | Leu | His | Met | Pro | Met 60 | Tyr | Phe | Phe | Leu |
| Gly 65 | Asn | Leu | Ser | Phe 70 | Leu | Asp | Ile | Cys | Tyr | Thr 75 | Thr | Tyr | Ser | Val 80 | Pro |
| Leu | Ile | Leu | Asp | Ser 85 | Phe | Leu | Thr | Pro | Arg 90 | Lys | Thr | Ile | Ser | Phe 95 | Ser |
| Ala | Cys | Ala | Val 100 | Gln | Met | Phe | Leu | Ser 105 | Phe | Ala | Met | Gly | Ala 110 | Thr | Glu |
| Cys | Val | Leu 115 | Leu | Ser | Met | Met 120 | Ala | Phe | Asp | Arg | Tyr | Val 125 | Ala | Ile | Cys |
| Asn 130 | Pro | Leu | Arg | Tyr | Pro | Val 135 | Val | Met | Ser | Lys | Ala 140 | Ala | Tyr | Met | Pro |
| Met 145 | Ala | Val | Gly | Ser 150 | Trp | Val | Ala | Gly | Ser | Thr 155 | Ala | Ser | Met | Val | Gln |
| Thr | Ser | Leu | Ala 165 | Met | Arg | Leu | Pro | Phe 170 | Cys | Gly | Asp | Asn | Ile 175 | Ile | Asn |

His Phe Thr Cys Glu Ile Leu Ala Val Gln Lys Leu Ala Cys Ala Asp
 180 185 190
 Ile Ser Val Asn Val Ile Ser Met Gly Val Thr Asn Val Ile Phe Leu
 195 200 205
 Gly Val Pro Val Leu Phe Ile Ser Phe Ser Tyr Val Phe Ile Ile Ala
 210 215 220
 Thr Ile Leu Arg Ile Pro Ser Ala Glu Gly Arg Lys Lys Ala Phe Ser
 225 230 235 240
 Thr Cys Ser Ala His Leu Thr Val Val Val Ile Phe Tyr Gly Thr Ile
 245 250 255
 Leu Phe Met Tyr Gly Lys Pro Lys Ser Lys Asp Pro Leu Gly Ala Asp
 260 265 270
 Lys Gln Asp Phe Ala Asp Lys Leu Ile Ser Leu Phe Tyr Gly Val Val
 275 280 285
 Thr Pro Met Leu Asn Pro Ile Tyr Ser Leu Arg Asn Lys Asp Val
 290 295 300
 Lys Ala Ala Val Arg Asp Leu Ile Phe Gln Lys Cys Phe Ala
 305 310 315

<210> 1667

<211> 321

<212> PRT

<213> Unknown (H38g584 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(321)

<223> Xaa = Any Amino Acid

<400> 1667

Met Asn Arg Ser Asn Glu Ala Ser Pro Val Leu Gly Phe Val Leu Leu
 1 5 10 15
 Gly Leu Ser Ala His Pro Xaa Leu Glu Lys Thr Phe Phe Val Phe Ile
 20 25 30
 Leu Leu Val Tyr Leu Val Ile Leu Leu Gly Asn Gly Val Leu Ile Leu
 35 40 45
 Val Thr Ile Leu Asp Ser Arg Leu His Thr Pro Met Tyr Phe Phe Leu
 50 55 60
 Gly Asn Leu Ser Phe Leu Asp Ile Cys Tyr Thr Ser Ser Val Leu
 65 70 75 80
 Asp Ser Phe Leu Thr Pro Arg Lys Thr Ile Ser Phe Ser Ala Cys Ala
 85 90 95
 Val Gln Met Phe Leu Ser Phe Ala Met Gly Ala Thr Glu Cys Val Leu
 100 105 110
 Leu Ser Met Met Ala Phe Asp His Tyr Leu Asp Met Cys Asn Pro Leu
 115 120 125
 Arg Tyr Pro Val Val Met Ser Lys Ala Ala Tyr Met Pro Met Ala Val
 130 135 140
 Gly Ser Trp Ala Ala Gly Ile Thr Asn Ser Val Val Gln Ile Ser Leu
 145 150 155 160
 Ala Met Xaa Leu Pro Phe Cys Gly Asp Asn Val Ile Asn His Phe Thr
 165 170 175
 Cys Glu Ile Leu Ala Val Leu Lys Leu Ala Cys Ala Asp Ile Cys Ile
 180 185 190
 Asn Val Ile Ser Met Val Val Thr Asn Met Ile Phe Leu Ala Leu Pro
 195 200 205
 Val Leu Phe Ile Phe Val Ser Tyr Val Phe Ile Ile Ala Thr Ile Leu
 210 215 220
 Arg Ile Pro Ser Ala Glu Gly Arg Lys Lys Ala Phe Ser Thr Cys Ser

```

225          230          235          240
Ala His Leu Thr Val Val Ile Val Phe Tyr Gly Met Ile Leu Phe Met
          245          250          255
Tyr Gly Lys Pro Lys Ser Lys Asp Pro Met Gly Ala Asp Lys Gln Asp
          260          265          270
Leu Ala Asp Lys Leu Ile Ser Ile Phe Tyr Gly Val Val Thr Pro Ile
          275          280          285
Leu Asn Pro Ile Ile Tyr Ser Pro Arg Asn Lys Asp Leu Lys Ala Ala
          290          295          300
Met Arg Asn Leu Val Ala Gln Lys His Leu Thr Glu Xaa Leu Ser Gln
305          310          315          320
Ile

```

<210> 1668
 <211> 125
 <212> PRT
 <213> Unknown (H38g585 protein)

<220>
 <223> Synthetic construct

<221> VARIANT
 <222> (1)...(125)
 <223> Xaa = Any Amino Acid

```

<400> 1668
Arg Leu Asn Val Ile Ser His Leu Pro Phe Tyr Gly Asp Ile Ile Asn
 1          5          10          15
His Leu Thr Cys Glu Val Leu Ala Val Leu Lys Leu Ala Cys Ala Asp
          20          25          30
Ile Ser Ile Asn Met Ile Arg Gln Lys Ala Phe Ser Thr Cys Ser Ala
          35          40          45
His Leu Thr Val Val Val Ile Phe Tyr Arg Thr Ile Leu Phe Thr His
          50          55          60
Gly Lys Pro Lys Ser Lys Asp Pro Leu Gly Ala Asp Lys Gln Asp Phe
65          70          75          80
Ala Asp Lys Leu Ile Ser Leu Ser Tyr Gly Val Val Thr Pro Met Leu
          85          90          95
Asn Thr Ile Ile Tyr Ser Leu Arg Lys Lys Gly Val Lys Ala Ala Val
          100          105          110
Lys Asn Leu Val Phe Gln Lys Pro Leu Thr Glu Xaa Gln
          115          120          125

```

<210> 1669
 <211> 216
 <212> PRT
 <213> Unknown (H38g586 protein)

<220>
 <223> Synthetic construct

```

<400> 1669
Phe Val Asp Met Gly Leu Thr Ser Ser Thr Val Thr Lys Met Leu Val
 1          5          10          15
Asn Ile Gln Thr Arg His His Thr Ile Thr Tyr Thr Gly Cys Leu Thr
          20          25          30
Gln Met Tyr Phe Phe Leu Met Phe Gly Asp Leu Asp Ser Phe Phe Leu
          35          40          45
Ala Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys His Pro Leu Cys
          50          55          60

```

Tyr Ser Thr Val Met Arg Pro Gln Val Cys Ala Leu Met Leu Ala Leu
 65 70 75 80
 Cys Trp Val Leu Thr Asn Ile Val Ala Leu Thr His Thr Phe Leu Met
 85 90 95
 Ala Arg Leu Ser Phe Cys Val Thr Gly Glu Ile Ala His Phe Phe Cys
 100 105 110
 Asp Ile Thr Pro Val Leu Lys Leu Ser Cys Ser Asp Thr His Ile Asn
 115 120 125
 Glu Met Met Val Phe Val Leu Gly Gly Thr Val Leu Ile Val Pro Phe
 130 135 140
 Leu Cys Ile Val Thr Ser Tyr Ile His Ile Val Pro Ala Ile Leu Arg
 145 150 155 160
 Val Arg Thr Arg Gly Gly Val Gly Lys Ala Phe Ser Thr Cys Ser Ser
 165 170 175
 His Leu Cys Val Val Cys Val Phe Tyr Gly Thr Leu Phe Ser Ala Tyr
 180 185 190
 Leu Cys Pro Pro Ser Ile Ala Ser Glu Glu Lys Asp Ile Ala Ala Ala
 195 200 205
 Ala Met Tyr Thr Ile Val Thr Pro
 210 215

<210> 1670

<211> 319

<212> PRT

<213> Unknown (H38g587 protein)

<220>

<223> Synthetic construct

<400> 1670

Met Glu Lys Ala Asn Glu Thr Ser Pro Val Met Gly Phe Val Leu Leu
 1 5 10 15
 Arg Leu Ser Ala His Pro Glu Leu Glu Lys Thr Phe Phe Val Leu Ile
 20 25 30
 Leu Leu Met Tyr Leu Val Ile Leu Glu Gly Asn Gly Val Leu Ile Leu
 35 40 45
 Val Thr Ile Leu Asp Ser Arg Leu His Thr Pro Met Tyr Phe Phe Leu
 50 55 60
 Gly Asn Leu Ser Phe Leu Asp Ile Cys Phe Thr Thr Ser Ser Val Pro
 65 70 75 80
 Leu Val Leu Asp Ser Phe Leu Thr Pro Gln Glu Thr Ile Ser Phe Ser
 85 90 95
 Ala Cys Ala Val Gln Met Ala Leu Ser Phe Ala Met Ala Gly Thr Glu
 100 105 110
 Cys Leu Leu Leu Ser Met Met Ala Phe Asp Arg Tyr Val Ala Ile Cys
 115 120 125
 Asn Pro Leu Arg Tyr Ser Val Ile Met Ser Lys Ala Ala Tyr Met Pro
 130 135 140
 Met Ala Ala Ser Ser Trp Ala Ile Gly Gly Ala Ala Ser Val Val His
 145 150 155 160
 Thr Ser Leu Ala Ile Gln Leu Pro Phe Cys Gly Asp Asn Val Ile Asn
 165 170 175
 His Phe Thr Cys Glu Ile Leu Ala Val Leu Lys Leu Ala Cys Ala Asp
 180 185 190
 Ile Ser Ile Asn Val Ile Ser Met Glu Val Thr Asn Val Ile Phe Leu
 195 200 205
 Gly Val Pro Val Leu Phe Ile Ser Phe Ser Tyr Val Phe Ile Ile Thr
 210 215 220
 Thr Ile Leu Arg Ile Pro Ser Ala Glu Gly Arg Lys Lys Val Phe Ser
 225 230 235 240
 Thr Cys Ser Ala His Leu Thr Val Val Ile Val Phe Tyr Gly Thr Leu

| | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|
| | | | | 245 | | | | | 250 | | | | | 255 | | | |
| Phe | Phe | Met | Tyr | Gly | Lys | Pro | Lys | Ser | Lys | Asp | Ser | Met | Gly | Ala | Asp | | |
| | | | 260 | | | | | 265 | | | | | 270 | | | | |
| Lys | Glu | Asp | Leu | Ser | Asp | Lys | Leu | Ile | Pro | Leu | Phe | Tyr | Gly | Val | Val | | |
| | | 275 | | | | | 280 | | | | | 285 | | | | | |
| Thr | Pro | Met | Leu | Asn | Pro | Ile | Ile | Tyr | Ser | Leu | Arg | Asn | Lys | Asp | Val | | |
| | 290 | | | | | 295 | | | | | 300 | | | | | | |
| Lys | Ala | Ala | Val | Arg | Arg | Leu | Leu | Arg | Pro | Lys | Gly | Phe | Thr | Gln | | | |
| 305 | | | | 310 | | | | | | 315 | | | | | | | |

<210> 1671

<211> 218

<212> PRT

<213> Unknown (H38g588 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(218)

<223> Xaa = Any Amino Acid

<400> 1671

| | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|
| Leu | Pro | Asp | Ile | Gly | Phe | Thr | Ser | Thr | Thr | Val | Pro | Lys | Met | Ile | Val | | |
| 1 | | | | 5 | | | | 10 | | | | | 15 | | | | |
| Asp | Ile | Gln | Ser | His | Ser | Arg | Val | Ile | Ser | Tyr | Ala | Gly | Cys | Leu | Thr | | |
| | | 20 | | | | | 25 | | | | | 30 | | | | | |
| Gln | Met | Ser | Leu | Phe | Ala | Ile | Phe | Gly | Gly | Met | Glu | Glu | Ser | Met | Leu | | |
| | 35 | | | | | 40 | | | | | 45 | | | | | | |
| Leu | Ser | Val | Ile | Ala | Tyr | Glu | Arg | Phe | Val | Ala | Ile | Cys | His | Pro | Leu | | |
| | 50 | | | | 55 | | | | | 60 | | | | | | | |
| Tyr | His | Ser | Ala | Ile | Met | Asn | Pro | Cys | Phe | Cys | Gly | Phe | Leu | Val | Leu | | |
| 65 | | | | 70 | | | | 75 | | | | | | 80 | | | |
| Leu | Ser | Phe | Phe | Phe | Leu | Ser | Leu | Leu | Asp | Ala | Gln | Leu | His | Asn | Leu | | |
| | | 85 | | | | | | 90 | | | | | 95 | | | | |
| Ile | Ala | Leu | Gln | Arg | Thr | Cys | Phe | Lys | Asp | Val | Glu | Ile | Pro | Asn | Phe | | |
| | | 100 | | | | | | 105 | | | | | 110 | | | | |
| Phe | Cys | Asp | Pro | Ser | Gln | Leu | Pro | His | Leu | Ala | Tyr | Cys | Gly | Thr | Phe | | |
| | 115 | | | | | 120 | | | | | | 125 | | | | | |
| Thr | Asn | Asn | Ile | Ile | Met | Tyr | Phe | Pro | Ala | Ala | Ile | Phe | Gly | Phe | Leu | | |
| | 130 | | | | 135 | | | | | | 140 | | | | | | |
| Pro | Ile | Ser | Gly | Thr | Leu | Phe | Ser | Tyr | Asn | Lys | Ile | Val | Phe | Ser | Ile | | |
| 145 | | | | 150 | | | | | | 155 | | | | | 160 | | |
| Leu | Arg | Val | Ser | Ser | Gly | Gly | Lys | Tyr | Lys | Ala | Phe | Ser | Thr | Cys | | | |
| | | 165 | | | | | 170 | | | | | | 175 | | | | |
| Gly | Ser | His | Leu | Ser | Val | Val | Cys | Xaa | Phe | Tyr | Gly | Thr | Gly | Ile | Gly | | |
| | 180 | | | | | | 185 | | | | | 190 | | | | | |
| Gly | Tyr | Leu | Gly | Ser | Asp | Val | Ser | Ser | Pro | Arg | Lys | Ala | Ala | Val | | | |
| | 195 | | | | | 200 | | | | | 205 | | | | | | |
| Ala | Ser | Val | Met | Tyr | Thr | Val | Val | Ile | Pro | | | | | | | | |
| 210 | | | | | 215 | | | | | | | | | | | | |

<210> 1672

<211> 216

<212> PRT

<213> Unknown (H38g589 protein)

<220>

<223> Synthetic construct

<400> 1672

```

Phe Val Asp Val Cys Phe Ser Ser Thr Thr Val Pro Lys Val Leu Ala
 1           5           10           15
Asn His Ile Leu Gly Ser Gln Ala Ile Ser Phe Ser Gly Cys Leu Thr
          20           25           30
Gln Leu Tyr Phe Leu Ala Val Cys Gly Asn Met Asp Asn Phe Leu Leu
          35           40           45
Gly Val Met Ser Tyr Asp Arg Phe Val Ala Ile Cys His Pro Leu His
          50           55           60
Tyr Thr Thr Lys Met Thr Arg Gln Leu Cys Val Leu Leu Val Val Gly
65           70           75           80
Ser Trp Val Val Ala Asn Met Asn Cys Leu Leu His Ile Leu Leu Met
          85           90           95
Ala Arg Leu Ser Phe Cys Ala Asp Asn Met Ile Pro His Phe Phe Cys
          100          105          110
Asp Gly Thr Pro Leu Leu Lys Leu Ser Cys Ser Asp Thr His Leu Asn
          115          120          125
Glu Leu Met Ile Leu Thr Glu Gly Ala Val Val Met Val Thr Pro Phe
          130          135          140
Val Cys Ile Leu Ile Ser Tyr Ile His Ile Thr Cys Ala Val Leu Arg
145          150          155          160
Val Ser Ser Pro Arg Gly Gly Trp Lys Ser Phe Ser Thr Cys Gly Ser
          165          170          175
His Leu Ala Val Val Cys Leu Phe Tyr Gly Thr Val Ile Ala Val Tyr
          180          185          190
Phe Asn Pro Ser Ser Ser His Leu Ala Gly Arg Asp Met Ala Ala Ala
          195          200          205
Val Met Tyr Pro Val Val Thr Pro
          210          215

```

<210> 1673

<211> 329

<212> PRT

<213> Unknown (H38g590 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(329)

<223> Xaa = Any Amino Acid

<400> 1673

```

Met Ala Glu Glu Asn Lys Ile Leu Val Thr His Phe Val Leu Thr Gly
 1           5           10           15
Leu Thr Asp His Pro Gly Leu Gln Ala Pro Leu Phe Leu Val Phe Leu
          20           25           30
Val Ile Tyr Leu Ile Thr Leu Val Gly Asn Leu Gly Leu Met Ala Leu
          35           40           45
Ile Trp Lys Asp Pro His Leu His Thr Pro Ile Tyr Leu Phe Leu Gly
          50           55           60
Ser Leu Ala Phe Ala Asp Ala Cys Thr Ser Ser Ser Val Thr Ser Lys
65           70           75           80
Met Leu Ile Asn Phe Leu Ser Lys Asn His Met Leu Ser Met Ala Lys
          85           90           95
Cys Ala Thr Gln Phe Tyr Phe Phe Gly Ser Asn Ala Thr Thr Glu Cys
          100          105          110
Phe Leu Leu Val Val Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Asn
          115          120          125
Pro Leu Leu Tyr Pro Val Val Met Ser Asn Ser Leu Cys Thr Gln Phe
          130          135          140
Ile Gly Ile Ser Tyr Phe Ile Gly Phe Leu His Ser Ala Ile His Val

```

```

145          150          155          160
Gly Leu Leu Phe Arg Leu Thr Phe Cys Arg Ser Asn Ile Ile His Tyr
165          170          175
Phe Tyr Cys Glu Ile Leu Gln Leu Phe Lys Ile Ser Cys Thr Asn Pro
180          185          190
Thr Val Asn Ile Leu Leu Ile Phe Ile Phe Ser Ala Phe Ile Gln Val
195          200          205
Phe Thr Phe Met Thr Leu Ile Val Ser Tyr Ser Tyr Ile Leu Ser Ala
210          215          220
Ile Leu Lys Lys Lys Ser Glu Lys Gly Arg Ser Lys Ala Phe Ser Thr
225          230          235          240
Cys Ser Ala His Leu Leu Ser Val Ser Leu Phe Tyr Gly Thr Leu Phe
245          250          255
Phe Met Tyr Val Ser Ser Arg Ser Gly Ser Ala Ala Asp Gln Ala Lys
260          265          270
Met Tyr Ser Leu Phe Tyr Thr Ile Ile Ile Pro Leu Leu Asn Pro Phe
275          280          285
Ile Tyr Ser Leu Arg Asn Lys Glu Val Ile Asp Ala Leu Arg Arg Ile
290          295          300
Met Lys Lys Xaa Ile Val Val Arg Gln His Ser Asn His Phe Phe Phe
305          310          315          320
Ile Phe Cys Xaa Arg Lys Pro Gln Val
325

```

<210> 1674

<211> 212

<212> PRT

<213> Unknown (H38g591 protein)

<220>

<223> Synthetic construct

<400> 1674

```

Cys His Ser Gln Val Ser Arg Leu Ala Gly Leu Gly Tyr Leu Glu Gly
1      5      10      15
Arg Arg Leu Ser Ser Tyr Asn Ala Cys Ala Ala Gln Met Phe Phe
20     25     30
Phe Val Ala Leu Ala Thr Val Glu Asn Ile Leu Leu Thr Ser Met Ala
35     40     45
Tyr Asp His Tyr Ile Ala Val Cys Lys Pro Leu His Tyr Thr Thr Thr
50     55     60
Thr Ile Ala Ser Val Cys Ala His Leu Val Ile Gly Ser Tyr Val Cys
65     70     75     80
Gly Phe Leu Asn Ala Ser Leu Arg Ile Val Asp Ile Phe Ser Leu Ser
85     90     95
Phe Cys Lys Ser Asn Leu Val His His Leu Phe Cys Asp Val Pro Pro
100    105    110
Val Met Ala Val Ser Cys Ser Gly Lys His Ile Ser Lys Lys Ile Leu
115    120    125
Val Phe Met Ser Ser Phe Asn Val Phe Leu Ala Leu Leu Val Ile Leu
130    135    140
Thr Ser Tyr Leu Phe Ile Phe Ile Thr Ile Leu Lys Met His Ser Ala
145    150    155    160
Gln Gly His Leu Lys Ala Leu Ser Thr Cys Ala Ser His Leu Ile Ala
165    170    175
Val Ser Ile Phe Tyr Gly Thr Thr Ile Phe Met Tyr Leu Gln Pro Ser
180    185    190
Ser Ser His Ser Met Asp Thr Asp Glu Met Ala Ser Leu Phe Tyr Ala
195    200    205
Val Phe Ile Ser
210

```


<210> 1675
 <211> 314
 <212> PRT
 <213> Unknown (H38g592 protein)

<220>
 <223> Synthetic construct

<221> VARIANT
 <222> (1)...(314)
 <223> Xaa = Any Amino Acid

<400> 1675
 Met Gly Asp Asn Gln Ser Arg Val Thr Glu Phe Ile Leu Val Gly Phe
 1 5 10 15
 Gln Leu Ser Val Glu Met Glu Val Leu Leu Phe Trp Ile Phe Ser Leu
 20 25 30
 Leu Tyr Leu Phe Ser Leu Leu Gly Asn Gly Val Ile Phe Gly Leu Ile
 35 40 45
 Cys Leu Asp Ser Lys Leu His Thr Pro Met Tyr Phe Phe Leu Ser His
 50 55 60
 Leu Ala Val Ile Asp Met Ser Tyr Ala Ser Asn Asn Val Pro Lys Met
 65 70 75 80
 Leu Ala Asn Leu Val Asn Gln Lys Arg Thr Ile Ser Phe Ile Ser Cys
 85 90 95
 Ile Met Gln Thr Phe Leu Tyr Leu Ala Phe Ala Val Thr Val Cys Leu
 100 105 110
 Ile Leu Val Val Met Ser Tyr Asp Arg Phe Val Ala Ile Cys His Pro
 115 120 125
 Leu His Tyr Thr Val Ile Met Ser Trp Arg Val Cys Thr Val Leu Ala
 130 135 140
 Val Ala Ser Trp Val Phe Ser Phe Leu Leu Ala Leu Val His Leu Val
 145 150 155 160
 Leu Ile Leu Arg Leu Pro Phe Cys Gly Pro Gln Glu Val Asn His Phe
 165 170 175
 Phe Gly Glu Ile Leu Ser Val Leu Lys Leu Ala Cys Ala Asp Thr Trp
 180 185 190
 Leu Asn Gln Val Val Ile Phe Ala Ala Cys Met Phe Ile Leu Val Gly
 195 200 205
 Xaa Leu Cys Leu Val Leu Val Ser Tyr Leu His Ile Leu Ala Ala Ile
 210 215 220
 Leu Arg Ile Gln Ser Gly Glu Gly Arg Arg Lys Ala Phe Ser Thr Cys
 225 230 235 240
 Ser Ser His Leu Cys Val Val Gly Leu Phe Phe Gly Ser Ala Ile Val
 245 250 255
 Met Tyr Met Ala Pro Lys Ser Ser His Ser Gln Glu Arg Arg Lys Ile
 260 265 270
 Leu Ser Leu Phe Tyr Ser Leu Phe Asn Pro Ile Leu Asn Pro Leu Ile
 275 280 285
 Tyr Ser Leu Arg Asn Ala Glu Val Lys Gly Ala Leu Lys Arg Val Leu
 290 295 300
 Trp Lys Gln Arg Ser Ile Glu Glu Ser Phe
 305 310

<210> 1676
 <211> 216
 <212> PRT
 <213> Unknown (H38g593 protein)

<220>

<223> Synthetic construct

<400> 1676

```

Phe Ser Asp Leu Cys Phe Ser Ser Val Thr Ile Pro Lys Leu Leu Gln
 1           5           10           15
Asn Met Gln Asn Gln Asp Pro Ser Ile Pro Tyr Ala Asp Cys Leu Thr
          20           25           30
Gln Met Tyr Phe Phe Leu Leu Phe Gly Asp Leu Glu Ser Phe Leu Leu
          35           40           45
Val Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Phe Pro Leu His
          50           55           60
Tyr Thr Ala Ile Met Ser Pro Met Leu Cys Leu Ala Leu Val Ala Leu
65           70           75           80
Ser Trp Val Leu Thr Thr Phe His Ala Met Leu His Thr Leu Leu Met
          85           90           95
Ala Arg Leu Cys Phe Cys Ala Asp Asn Val Ile Pro His Phe Phe Cys
          100          105          110
Asp Met Ser Ala Leu Leu Lys Leu Ala Phe Ser Asp Thr Arg Val Asn
          115          120          125
Glu Trp Val Ile Phe Ile Met Gly Gly Leu Ile Leu Val Ile Pro Phe
          130          135          140
Leu Leu Ile Leu Gly Ser Tyr Ala Arg Ile Val Ser Ser Ile Leu Lys
145          150          155          160
Val Pro Ser Ser Lys Gly Ile Cys Lys Ala Phe Ser Thr Cys Gly Ser
          165          170          175
His Leu Ser Val Val Ser Leu Phe Tyr Gly Thr Val Ile Gly Leu Tyr
          180          185          190
Leu Cys Ser Ser Ala Asn Ser Ser Thr Leu Lys Asp Thr Val Met Ala
          195          200          205
Met Met Tyr Thr Val Val Thr Pro
          210          215

```

<210> 1677

<211> 312

<212> PRT

<213> Unknown (H38g594 protein)

<220>

<223> Synthetic construct

<400> 1677

```

Met Asp Gly Glu Asn His Ser Val Val Ser Glu Phe Leu Phe Leu Gly
 1           5           10           15
Leu Thr His Ser Trp Glu Ile Gln Leu Leu Leu Val Phe Ser Ser
          20           25           30
Val Leu Tyr Val Ala Ser Ile Thr Gly Asn Ile Leu Ile Val Phe Ser
          35           40           45
Val Thr Thr Asp Pro His Leu His Ser Pro Met Tyr Phe Leu Leu Ala
          50           55           60
Ser Leu Ser Phe Ile Asp Leu Gly Ala Cys Ser Val Thr Ser Pro Lys
65           70           75           80
Met Ile Tyr Asp Leu Phe Arg Lys Arg Lys Val Ile Ser Phe Gly Gly
          85           90           95
Cys Ile Ala Gln Ile Phe Phe Ile His Val Val Gly Gly Val Glu Met
          100          105          110
Val Leu Leu Ile Ala Met Ala Phe Asp Arg Tyr Val Ala Leu Cys Lys
          115          120          125
Pro Leu His Tyr Leu Thr Ile Met Ser Pro Arg Met Cys Leu Ser Phe
          130          135          140
Leu Ala Val Ala Trp Thr Leu Gly Val Ser His Ser Leu Phe Gln Leu
145          150          155          160

```

Ala Phe Leu Val Asn Leu Ala Phe Cys Gly Pro Asn Val Leu Asp Ser
 165 170 175
 Phe Tyr Cys Asp Leu Pro Arg Leu Leu Arg Leu Ala Cys Thr Asp Thr
 180 185 190
 Tyr Arg Leu Gln Phe Met Val Thr Val Asn Ser Gly Phe Ile Cys Val
 195 200 205
 Gly Thr Phe Phe Ile Leu Leu Ile Ser Tyr Val Phe Ile Leu Phe Thr
 210 215 220
 Val Trp Lys His Ser Ser Gly Gly Ser Ser Lys Ala Leu Ser Thr Leu
 225 230 235 240
 Ser Ala His Ser Thr Val Val Leu Leu Phe Phe Gly Pro Pro Met Phe
 245 250 255
 Val Tyr Thr Arg Pro His Pro Asn Ser Gln Met Asp Lys Phe Leu Ala
 260 265 270
 Ile Phe Asp Ala Val Leu Thr Pro Phe Leu Asn Pro Val Val Tyr Thr
 275 280 285
 Phe Arg Asn Lys Glu Met Lys Ala Ala Ile Lys Arg Val Cys Lys Gln
 290 295 300
 Leu Val Ile Tyr Lys Arg Ile Ser
 305 310

<210> 1678

<211> 128

<212> PRT

<213> Unknown (H38g595 protein)

<220>

<223> Synthetic construct

<400> 1678

Met Asn Ser Glu Asn Leu Thr Arg Ala Ala Val Ala Pro Ala Glu Phe
 1 5 10 15
 Val Leu Leu Gly Ile Thr Asn Arg Trp Asp Leu Arg Val Ala Leu Phe
 20 25 30
 Leu Thr Cys Leu Pro Val Tyr Leu Val Ser Leu Leu Gly Asn Met Gly
 35 40 45
 Met Ala Leu Leu Ile Arg Met Asp Ala Arg Leu His Thr Pro Met Tyr
 50 55 60
 Phe Phe Leu Ala Asn Leu Ser Leu Leu Asp Ala Cys Tyr Ser Ser Ala
 65 70 75 80
 Ile Gly Pro Lys Met Leu Val Asp Leu Leu Leu Pro Arg Ala Thr Ile
 85 90 95
 Pro Tyr Thr Ala Cys Ala Leu Gln Met Phe Val Phe Ala Gly Leu Ala
 100 105 110
 Asp Thr Glu Cys Ser Met Gln Leu Met Pro Lys Val Asn Gln Asn Val
 115 120 125

<210> 1679

<211> 270

<212> PRT

<213> Unknown (H38g596 protein)

<220>

<223> Synthetic construct

<400> 1679

Met Thr Ile Val Leu Leu Ser Ala Leu Asp Ser Arg Leu His Thr Pro
 1 5 10 15
 Met Tyr Phe Phe Leu Ala Asn Leu Ser Phe Leu Asp Met Cys Phe Thr
 20 25 30
 Thr Gly Ser Ile Pro Gln Met Leu Tyr Asn Leu Trp Gly Pro Asp Lys

```

      35      40      45
Thr Ile Ser Tyr Val Gly Cys Ala Ile Gln Leu Tyr Phe Val Leu Ala
  50      55      60
Leu Gly Gly Val Glu Cys Val Leu Leu Ala Val Met Ala Tyr Asp Arg
65      70      75      80
Tyr Ala Ala Val Cys Lys Pro Leu His Tyr Thr Ile Ile Met His Pro
      85      90      95
Arg Leu Cys Gly Gln Leu Ala Ser Val Ala Trp Leu Ser Gly Phe Gly
      100      105      110
Asn Ser Leu Ile Met Ala Pro Gln Thr Leu Met Leu Pro Arg Cys Gly
      115      120      125
His Arg Arg Val Asp His Phe Leu Cys Glu Met Pro Ala Leu Ile Gly
      130      135      140
Met Ala Cys Val Asp Thr Met Met Leu Glu Ala Leu Ala Phe Ala Leu
145      150      155      160
Ala Ile Phe Ile Ile Leu Ala Pro Leu Ile Leu Ile Leu Ile Ser Tyr
      165      170      175
Gly Tyr Val Gly Gly Thr Val Leu Arg Ile Lys Ser Ala Ala Gly Arg
      180      185      190
Lys Lys Ala Phe Asn Thr Cys Ser Ser His Leu Ile Val Val Ser Leu
      195      200      205
Phe Tyr Gly Thr Ile Ile Tyr Met Tyr Leu Gln Pro Ala Asn Thr Tyr
210      215      220
Ser Gln Asp Gln Gly Lys Phe Leu Thr Leu Phe Tyr Thr Ile Val Thr
225      230      235      240
Pro Ser Val Asn Pro Leu Ile Tyr Thr Leu Arg Asn Lys Asp Val Lys
      245      250      255
Glu Ala Met Lys Lys Val Leu Gly Lys Gly Ser Ala Glu Ile
      260      265      270

```

<210> 1680

<211> 114

<212> PRT

<213> Unknown (H38g597 protein)

<220>

<223> Synthetic construct

<400> 1680

```

Ile Cys Phe Pro Leu His Tyr Pro Ile Arg Ile Ser Lys Arg Val Cys
  1      5      10      15
Val Met Met Ile Thr Gly Ser Trp Met Ile Ser Ser Ile Asn Ser Cys
      20      25      30
Ala His Thr Val Tyr Ala Leu Cys Ile Pro Tyr Cys Lys Ser Arg Ala
      35      40      45
Ile Asn His Phe Phe Cys Asp Val Pro Ala Met Leu Thr Leu Ala Cys
      50      55      60
Thr Asp Thr Trp Val Tyr Glu Ser Thr Val Phe Leu Ser Ser Thr Ile
65      70      75      80
Phe Leu Val Leu Pro Phe Thr Gly Ile Ala Cys Ser Tyr Gly Arg Val
      85      90      95
Leu Leu Ala Val Tyr Arg Met His Ser Ala Glu Gly Arg Lys Lys Ala
      100      105      110
Tyr Ser

```

<210> 1681

<211> 212

<212> PRT

<213> Unknown (H38g598 protein)

<220>
<223> Synthetic construct

<221> VARIANT
<222> (1)...(212)
<223> Xaa = Any Amino Acid

<400> 1681

```

Phe Val Asp Ile Ala Cys Ser Ser Ala Thr Ala Pro Lys Met Ile Val
 1           5           10           15
Asp Ser Val Ser Glu Lys Lys Thr Ile Ser Tyr Trp Gly Cys Ile Thr
           20           25           30
Gln Met Phe Thr Phe His Phe Phe Gly Cys Ala Asp Ile Phe Val Leu
           35           40           45
Thr Val Met Ala Phe Asp Arg Tyr Ala Ala Ile Cys Gln Pro Leu Arg
           50           55           60
Tyr Thr Val Ile Met Ser Ala Asn Ala Tyr Thr Val Leu Ala Ser Leu
65           70           75           80
Ser Trp Leu Gly Ala Leu Gly His Ser Phe Val Gln Thr Leu Leu Thr
           85           90           95
Phe Gln Leu Pro Phe Cys Asn Ala Gln Val Ile Asp His Tyr Phe Cys
           100          105          110
Asp Val His Pro Val Leu Lys Leu Ala Cys Ala Asp Thr Thr Leu Val
           115          120          125
Ser Met Leu Val Val Ala Asn Ser Gly Leu Ile Ser Leu Gly Cys Phe
130          135          140
Leu Ile Leu Leu Ala Ser Tyr Thr Val Ile Leu Phe Ser Leu Gln Lys
145          150          155          160
Gln Ser Ala Glu Ser Xaa His Lys Val Leu Ser Thr Cys Gly Ser His
           165          170          175
Leu Thr Ile Val Thr Phe Phe Phe Val Pro Cys Thr Phe Ile Tyr Arg
           180          185          190
Pro Ser Thr Thr Phe Pro Leu Asp Lys Ala Val Ser Val Phe Tyr Thr
           195          200          205
Thr Ile Thr Pro
           210

```

<210> 1682
<211> 212
<212> PRT
<213> Unknown (H38g599 protein)

<220>
<223> Synthetic construct

<221> VARIANT
<222> (1)...(212)
<223> Xaa = Any Amino Acid

<400> 1682

```

Phe Val Asp Phe Cys Tyr Ser Thr Thr Ile Thr Pro Lys Leu Leu Glu
 1           5           10           15
Asn Leu Val Ala Glu Asp Arg Thr Ile Ser Phe Thr Gly Cys Thr Met
           20           25           30
Gln Leu Phe Phe Val Cys Ile Phe Val Val Thr Glu Thr Cys Met Leu
           35           40           45
Ala Val Met Ala Tyr Asp Arg Tyr Val Ala Val Cys Asn Pro Leu Leu
           50           55           60
Tyr Thr Val Ala Met Tyr Gln Arg Leu Cys Ser Leu Leu Val Ala Thr
65           70           75           80
Ser Tyr Cys Trp Gly Ile Val Cys Ser Leu Thr Leu Thr Xaa Phe Leu

```

```

      85              90              95
Leu Glu Leu Ser Phe Arg Gly Asn Asn Ile Ile Asn Asn Phe Val Cys
      100              105              110
Glu His Ala Ala Ile Val Ala Val Ser Cys Ser Asp Pro Cys Val Ser
      115              120              125
Gln Xaa Ile Thr Leu Val Ser Ala Thr Phe Asn Glu Ile Ser Ser Leu
      130              135              140
Thr Ser Tyr Ala Phe Ile Phe Ile Thr Val Met Lys Thr Ala Ser Thr
      145              150              155              160
Gly Gly Arg Lys Lys Ala Phe Ser Thr Ser Ala Ser His Leu Thr Ala
      165              170              175
Ile Thr Ile Phe His Gly Thr Ile Leu Phe Leu Tyr Cys Val Pro Asn
      180              185              190
Ala Lys Ser Ser Trp Leu Met Val Lys Val Ala Ser Gly Phe Tyr Thr
      195              200              205
Val Val Met Pro
      210

```

<210> 1683

<211> 215

<212> PRT

<213> Unknown (H38g600 protein)

<220>

<223> Synthetic construct

<400> 1683

```

Phe Val Asp Ile Cys Val Thr Ser Thr Thr Val Pro Lys Thr Leu Ser
  1              5              10              15
Asn Ile Arg Thr Gln Ser Lys Val Ile Thr Tyr Ala Gly Cys Ile Thr
      20              25              30
Gln Met Tyr Phe Phe Val Leu Phe Ile Val Leu Asp Ser Leu Leu Leu
      35              40              45
Thr Val Met Ala Tyr Asp Gln Phe Val Ala Ile Cys His Pro Leu His
      50              55              60
Tyr Thr Val Ile Val Asn Pro Arg Leu Cys Gly Leu Leu Val Leu Ala
      65              70              75              80
Ser Trp Ile Met Ser Ala Leu Asn Ser Leu Ile Glu Ser Leu Met Val
      85              90              95
Leu Pro Leu Leu Phe Cys Thr Asp Leu Lys Ile Pro His Phe Phe Cys
      100              105              110
Glu Leu Asn Gln Ile Ile Arg Ser Ala Cys Ser Asp Thr Phe Leu Asn
      115              120              125
Asp Met Val Met Tyr Leu Ser Ala Val Leu Leu Gly Arg Gly Cys Phe
      130              135              140
Thr Gly Ile Leu Tyr Ser Tyr Phe Lys Thr Val Ser Ser Ile Arg Ala
      145              150              155              160
Ile Ser Ser Ala Gln Gly Lys Tyr Lys Ala Phe Ser Thr Cys Ala Ser
      165              170              175
His Leu Ser Val Val Ser Leu Phe Tyr Cys Met Gly Leu Gly Val Tyr
      180              185              190
Leu Ser Ala Ala Ala Pro Thr Thr His Ser Gln Val Gln Gln Pro Leu
      195              200              205
Met Tyr Thr Val Val Thr Pro
      210              215

```

<210> 1684

<211> 114

<212> PRT

<213> Unknown (H38g601 protein)

<220>

<223> Synthetic construct

<400> 1684

```

Ile Cys Phe Pro Leu His Tyr Pro Ile Arg Met Arg Lys Arg Val Cys
 1           5           10           15
Ala Leu Met Ile Thr Gly Ser Trp Met Ile Gly Ser Ile Asn Ser Cys
      20           25           30
Ala His Thr Val Tyr Ala Leu Arg Ile Pro Tyr Cys Lys Ser Arg Ala
      35           40           45
Ile Asn His Phe Phe Cys Asp Val Pro Ala Met Leu Thr Leu Ala Cys
      50           55           60
Thr Asp Thr Trp Val Tyr Glu Cys Thr Val Phe Leu Ser Thr Thr Ile
      65           70           75           80
Phe Leu Val Phe Pro Phe Ile Cys Ile Ala Cys Ser Tyr Gly Arg Ile
      85           90           95
Leu Leu Ala Val Tyr His Met His Ser Ala Glu Gly Arg Lys Lys Ala
      100           105           110
Tyr Ser

```

<210> 1685

<211> 216

<212> PRT

<213> Unknown (H38g602 protein)

<220>

<223> Synthetic construct

<400> 1685

```

Leu Val Asp Val Ser Tyr Ala Thr Ser Val Val Pro Gln Leu Leu Ala
 1           5           10           15
His Phe Leu Ala Glu His Lys Ala Ile Pro Phe Gln Ser Cys Ala Ala
      20           25           30
Gln Leu Phe Phe Ser Leu Ala Leu Gly Gly Ile Glu Phe Val Leu Leu
      35           40           45
Ala Val Met Gly Tyr Asp Arg Tyr Val Ala Val Cys Asp Ala Leu Arg
      50           55           60
Tyr Ser Ala Ile Met His Gly Gly Leu Cys Ala Arg Leu Ala Ile Thr
      65           70           75           80
Ser Trp Val Ser Gly Phe Ile Ser Ser Pro Val Gln Thr Ala Ile Thr
      85           90           95
Phe Gln Leu Pro Met Cys Arg Asn Lys Phe Ile Asp His Ile Ser Cys
      100           105           110
Glu Leu Leu Ala Val Val Arg Leu Ala Arg Val Asp Thr Ser Ser Asn
      115           120           125
Glu Val Thr Ile Met Val Ser Ser Ile Val Leu Leu Met Thr Pro Phe
      130           135           140
Cys Leu Val Leu Leu Ser Tyr Ile Gln Ile Ile Ser Thr Ile Leu Lys
      145           150           155           160
Ile Gln Ser Arg Glu Gly Arg Lys Lys Ala Phe His Thr Cys Ala Ser
      165           170           175
His Leu Thr Val Val Ala Leu Cys Tyr Gly Val Ala Ile Phe Thr Tyr
      180           185           190
Ile Gln Pro His Ser Ser Pro Ser Val Leu Gln Glu Lys Leu Phe Ser
      195           200           205
Val Phe Tyr Ala Ile Leu Thr Pro
      210           215

```

<210> 1686

<211> 212

<212> PRT
 <213> Unknown (H38g603 protein)

<220>
 <223> Synthetic construct

<221> VARIANT
 <222> (1)...(212)
 <223> Xaa = Any Amino Acid

<400> 1686
 Phe Val Asp Ile Ala Cys Ser Ser Ala Thr Ala Pro Lys Met Ile Glu
 1 5 10 15
 Asp Phe Val Ser Glu Lys Lys Thr Ile Ser Tyr Trp Gly Cys Ile Thr
 20 25 30
 Gln Met Phe Thr Phe His Phe Phe Gly Cys Ala Glu Ile Phe Val Leu
 35 40 45
 Thr Val Met Ala Phe Asp Arg Tyr Ala Ala Ile Cys Gln Pro Leu Arg
 50 55 60
 Tyr Thr Val Ile Met Ser Ala Asn Ala Tyr Thr Val Leu Ala Ser Leu
 65 70 75 80
 Ser Trp Leu Gly Ala Leu Gly His Ser Phe Val Gln Thr Val Leu Thr
 85 90 95
 Phe Gln Leu Pro Phe Cys Asn Ala Gln Val Ile Asp His Tyr Phe Cys
 100 105 110
 Asp Val His Pro Val Leu Lys Leu Ala Cys Ala Asp Thr Thr Leu Val
 115 120 125
 Asn Met Leu Val Val Ala Asn Ser Gly Leu Ile Ser Leu Gly Cys Phe
 130 135 140
 Leu Ile Leu Leu Ala Ser Tyr Thr Val Ile Leu Phe Ser Leu Gln Lys
 145 150 155 160
 Gln Ser Ala Glu Ser Xaa His Lys Val Leu Ser Thr Cys Gly Ser His
 165 170 175
 Leu Thr Ile Val Thr Phe Phe Phe Val Pro Cys Ile Phe Ile Tyr Arg
 180 185 190
 Pro Ser Thr Thr Phe Pro Leu Asp Lys Ala Val Ser Val Phe Tyr Thr
 195 200 205
 Thr Ile Thr Pro
 210

<210> 1687
 <211> 114
 <212> PRT
 <213> Unknown (H38g604 protein)

<220>
 <223> Synthetic construct

<400> 1687
 Ile Cys Lys Pro Leu Leu Tyr Pro Ala Ile Met Thr Asn Gly Leu Cys
 1 5 10 15
 Ile Arg Leu Leu Ile Leu Ser Tyr Val Gly Gly Leu Leu His Ala Leu
 20 25 30
 Ile His Glu Gly Phe Leu Phe Arg Leu Thr Phe Cys Asn Ser Asn Ile
 35 40 45
 Val His His Ile Tyr Cys Asp Ile Ile Pro Leu Ser Lys Ile Ser Cys
 50 55 60
 Thr Asp Ser Ser Ile Asn Phe Leu Met Val Phe Ile Phe Ser Gly Ser
 65 70 75 80
 Ile Gln Val Phe Ser Ile Val Thr Ile Leu Val Ser Tyr Thr Phe Val
 85 90 95

Leu Phe Ala Ile Leu Lys Arg Lys Ser Asp Lys Gly Val Arg Lys Ala
 100 105 110
 Phe Ser

<210> 1688
 <211> 111
 <212> PRT
 <213> Unknown (H38g605 protein)

<220>
 <223> Synthetic construct

<400> 1688
 Ile Cys Asn Pro Leu Arg Tyr Pro Ile Ile Met Ser Arg His Val Cys
 1 5 10 15
 Val Gln Met Ala Ala Ile Ser Trp Val Thr Gly Cys Leu Thr Ala Leu
 20 25 30
 Leu Val Thr Ser Cys Ala Leu Gln Ile Pro Leu Cys Gly Asn Val Ile
 35 40 45
 Asp His Phe Thr Cys Glu Ile Leu Ala Val Leu Lys Leu Ala Cys Val
 50 55 60
 Ser Ser Leu Leu Val Asp Met Val Met Leu Val Val Ser Ile Leu Leu
 65 70 75 80
 Leu Pro Ile Pro Met Leu Leu Ile Cys Ile Ser Tyr Gly Phe Ile Leu
 85 90 95
 Ser Thr Ile Leu Arg Ile Gly Ser Thr Glu Gly Arg Asn Lys Ala
 100 105 110

<210> 1689
 <211> 223
 <212> PRT
 <213> Unknown (H38g606 protein)

<220>
 <223> Synthetic construct

<221> VARIANT
 <222> (1)...(223)
 <223> Xaa = Any Amino Acid

<400> 1689
 Leu Pro Asp Ile Gly Phe Thr Ser Thr Thr Val Pro Lys Met Ile Val
 1 5 10 15
 Asp Ile Gln Ser His Ser Arg Val Ile Ser Tyr Ala Gly Cys Leu Thr
 20 25 30
 Gln Met Ser Leu Phe Ala Ile Cys Gly Gly Met Glu Glu Ser Met Leu
 35 40 45
 Leu Ser Val Met Ala Tyr Gly Arg Phe Val Ala Ile Cys His Pro Leu
 50 55 60
 Tyr Arg Ser Ala Ile Leu Asn Pro Cys Phe Cys Gly Phe Leu Asp Leu
 65 70 75 80
 Leu Ser Ser Phe Cys Phe Val Ser Val Phe Leu Ser Leu Leu Asp Ser
 85 90 95
 Gln Leu His Asn Leu Ile Ala Leu Gln Met Thr Gly Phe Lys Asp Val
 100 105 110
 Asp Ile Pro Asn Phe Phe Trp Glu Pro Ser Gln Leu Leu His Leu Ala
 115 120 125
 Cys Cys Asp Thr Phe Thr Arg Asn Ile Asn Leu Tyr Phe Pro Ala Ala
 130 135 140
 Val Phe Gly Phe Leu Pro Ile Leu Gly Thr Phe Phe Ser Tyr Cys Lys

```

145          150          155          160
Ile Val Ser Ser Ile Leu Arg Val Ser Ser Ser Gly Gly Lys Tyr Lys
          165          170          175
Ala Phe Ser Thr Cys Gly Ser His Leu Pro Val Val Cys Xaa Phe Cys
          180          185          190
Gly Thr Gly Val Gly Gly Tyr Leu Gly Ser Asp Val Ser Ser Ser Pro
          195          200          205
Arg Lys Ser Ala Val Pro Ser Val Met Tyr Pro Val Val Thr Ser
          210          215          220

```

<210> 1690

<211> 215

<212> PRT

<213> Unknown (H38g607 protein)

<220>

<223> Synthetic construct

<400> 1690

```

Phe Val Asp Ile Cys Val Thr Ser Thr Thr Val Pro Lys Thr Leu Ser
 1          5          10          15
Asn Ile Arg Thr Gln Ser Lys Val Ile Thr Tyr Ala Asp Cys Ile Thr
          20          25          30
Gln Met Tyr Phe Phe Val Leu Phe Ile Val Leu Asp Ser Leu Leu Leu
          35          40          45
Thr Val Met Ala Tyr Asp Gln Phe Val Ala Ile Cys His Pro Leu His
          50          55          60
Tyr Thr Val Ile Val Asn Pro Arg Leu Cys Gly Leu Leu Val Leu Ala
          65          70          75          80
Ser Trp Ile Met Ser Ala Leu Asn Ser Leu Ile Glu Ser Leu Met Val
          85          90          95
Leu Pro Leu Leu Phe Cys Thr Asp Leu Lys Ile Pro His Phe Phe Cys
          100          105          110
Glu Leu Asn Gln Ile Ile Arg Ser Ala Cys Ser Asp Thr Phe Leu Asn
          115          120          125
Asp Met Val Met Tyr Leu Ser Ala Val Leu Leu Gly Arg Gly Cys Phe
          130          135          140
Thr Gly Ile Leu Tyr Ser Tyr Phe Lys Thr Val Ser Ser Ile Arg Ala
          145          150          155          160
Ile Ser Ser Ala Gln Gly Lys Tyr Lys Ala Phe Ser Thr Cys Ala Ser
          165          170          175
His Leu Ser Val Val Ser Leu Phe Tyr Cys Met Ser Leu Gly Val Tyr
          180          185          190
Leu Ser Ala Ala Ala Pro Thr Thr His Ser Gln Val Gln Gln Pro Leu
          195          200          205
Met Tyr Thr Val Val Thr Pro
          210          215

```

<210> 1691

<211> 278

<212> PRT

<213> Unknown (H38g608 protein)

<220>

<223> Synthetic construct

<400> 1691

```

Met Ala Ile Arg Asn His Ser Thr Leu His Lys Pro Met Tyr Phe Phe
 1          5          10          15
Leu Ala Asn Met Ser Phe Leu Glu Ile Trp Tyr Val Thr Val Thr Ile
          20          25          30

```

Pro Lys Met Leu Ala Gly Phe Val Gly Ser Lys Gln Asp His Gly Gln
 35 40 45
 Leu Ile Ser Phe Glu Gly Cys Met Thr Gln Leu Tyr Phe Phe Leu Gly
 50 55 60
 Leu Gly Cys Thr Glu Cys Val Leu Leu Ala Val Met Ala Asn Asp Arg
 65 70 75 80
 Tyr Met Ala Ile Cys Tyr Leu Leu His Asn Pro Val Ile Val Ser Gly
 85 90 95
 Arg Leu Cys Val Gln Met Ala Ala Gly Ser Trp Ala Gly Gly Phe Gly
 100 105 110
 Ile Ser Met Val Lys Val Phe Leu Ile Ser Gly Leu Ser Asn Gly Gly
 115 120 125
 Pro Asn Ile Ile Asn His Phe Phe Cys Asp Val Ser Pro Leu Leu Asn
 130 135 140
 Leu Ser Cys Thr Asp Met Ser Thr Ala Glu Leu Thr Asp Phe Ile Leu
 145 150 155 160
 Ala Ile Phe Ile Leu Leu Gly Pro Leu Ser Val Thr Gly Ala Ser Tyr
 165 170 175
 Val Ala Ile Thr Gly Ala Val Met His Ile Pro Ser Ala Ala Gly Arg
 180 185 190
 Tyr Lys Ala Phe Ser Thr Cys Ala Ser His Phe Asn Val Val Ile Ile
 195 200 205
 Phe Tyr Ala Ala Ser Ile Phe Ile Tyr Ala Arg Pro Lys Ala Leu Ser
 210 215 220
 Ala Phe Asp Thr Asn Lys Leu Val Ser Val Leu Tyr Ala Val Ile Val
 225 230 235 240
 Pro Leu Leu Asn Pro Ile Ile Tyr Cys Leu Arg Asn Gln Glu Val Lys
 245 250 255
 Arg Ala Leu Cys Ile Leu His Leu Tyr Gln His Gln Asp Pro Asp
 260 265 270
 Pro Lys Lys Gly Ser Arg
 275

<210> 1692

<211> 314

<212> PRT

<213> Unknown (H38g609 protein)

<220>

<223> Synthetic construct

<400> 1692

Met Glu Phe Thr Asp Arg Asn Tyr Thr Leu Val Thr Glu Phe Ile Leu
 1 5 10 15
 Leu Gly Phe Pro Thr Arg Pro Glu Leu Gln Ile Val Leu Phe Leu Met
 20 25 30
 Phe Leu Thr Leu Tyr Ala Ile Ile Leu Ile Gly Asn Ile Gly Leu Met
 35 40 45
 Leu Leu Ile Arg Ile Asp Pro His Leu Gln Thr Pro Met Tyr Phe Phe
 50 55 60
 Leu Ser Asn Leu Ser Phe Val Asp Leu Cys Tyr Phe Ser Asp Ile Val
 65 70 75 80
 Pro Lys Met Leu Val Asn Phe Leu Ser Glu Asn Lys Ser Ile Ser Tyr
 85 90 95
 Tyr Gly Cys Ala Leu Gln Phe Tyr Phe Phe Cys Thr Phe Ala Asp Thr
 100 105 110
 Glu Ser Phe Ile Leu Ala Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile
 115 120 125
 Cys Asn Pro Leu Leu Tyr Thr Val Val Met Ser Arg Gly Ile Cys Met
 130 135 140
 Arg Leu Ile Val Leu Ser Tyr Leu Gly Gly Asn Met Ser Ser Leu Val

145 150 155 160
 His Thr Ser Phe Ala Phe Ile Leu Lys Tyr Cys Asp Lys Asn Val Ile
 165 170 175
 Asn His Phe Phe Cys Asp Leu Pro Pro Leu Leu Lys Leu Ser Cys Thr
 180 185 190
 Asp Thr Thr Ile Asn Glu Trp Leu Leu Ser Thr Tyr Gly Ser Ser Val
 195 200 205
 Glu Ile Ile Cys Phe Ile Ile Ile Ile Ile Ser Tyr Phe Phe Ile Leu
 210 215 220
 Leu Ser Val Leu Lys Ile Arg Ser Phe Ser Gly Arg Lys Lys Thr Phe
 225 230 235 240
 Ser Thr Cys Ala Ser His Leu Thr Ser Val Thr Ile Tyr Gln Gly Thr
 245 250 255
 Leu Leu Phe Ile Tyr Ser Arg Pro Ser Tyr Leu Tyr Ser Pro Asn Thr
 260 265 270
 Asp Lys Ile Ile Ser Val Phe Tyr Thr Ile Phe Ile Pro Val Leu Asn
 275 280 285
 Pro Leu Ile Tyr Ser Leu Arg Asn Lys Asp Val Lys Asp Ala Ala Glu
 290 295 300
 Lys Val Leu Arg Ser Lys Val Asp Ser Ser
 305 310

<210> 1693

<211> 316

<212> PRT

<213> Unknown (H38g610 protein)

<220>

<223> Synthetic construct

<400> 1693

Met Asp Asn Gln Ser Ser Thr Pro Gly Phe Leu Leu Leu Gly Phe Ser
 1 5 10 15
 Glu His Pro Gly Leu Gly Arg Thr Leu Phe Val Asp Val Ile Thr Ser
 20 25 30
 Tyr Leu Leu Thr Leu Val Gly Asn Thr Leu Ile Ile Leu Leu Ser Ala
 35 40 45
 Leu Asp Thr Lys Leu His Ser Pro Met Tyr Phe Phe Leu Ser Asn Leu
 50 55 60
 Ser Phe Leu Asp Leu Cys Phe Thr Thr Ser Cys Val Pro Gln Met Leu
 65 70 75 80
 Ala Asn Leu Trp Gly Pro Lys Lys Thr Ile Ser Phe Leu Asp Cys Ser
 85 90 95
 Val Gln Ile Phe Ile Phe Leu Ser Leu Gly Thr Thr Glu Cys Ile Leu
 100 105 110
 Met Lys Val Met Ala Phe Asp Arg Tyr Val Ala Val Cys Gln Pro Leu
 115 120 125
 His Tyr Ala Thr Ile Ile His Pro Arg Leu Cys Trp Gln Leu Ala Ser
 130 135 140
 Val Ala Trp Val Ile Gly Leu Val Gly Ser Val Val Gln Thr Pro Ser
 145 150 155 160
 Thr Leu His Leu Pro Phe Cys Pro Asp Arg Gln Val Asp Asp Phe Val
 165 170 175
 Cys Glu Val Pro Ala Leu Ile Arg Leu Ser Cys Glu Asp Thr Ser Tyr
 180 185 190
 Asn Glu Ile Gln Val Ala Val Ala Ser Val Phe Ile Leu Val Val Pro
 195 200 205
 Leu Ser Leu Ile Leu Val Ser Tyr Gly Ala Ile Thr Trp Ala Val Leu
 210 215 220
 Arg Ile Asn Ser Ala Thr Ala Trp Arg Lys Ala Phe Gly Thr Cys Ser
 225 230 235 240

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | His | Leu | Thr | Val | Val | Thr | Leu | Phe | Tyr | Ser | Ser | Val | Ile | Ala | Val |
| | | | | 245 | | | | | 250 | | | | | 255 | |
| Tyr | Leu | Gln | Pro | Lys | Asn | Pro | Tyr | Ala | Gln | Gly | Arg | Gly | Lys | Phe | Phe |
| | | | 260 | | | | | 265 | | | | | 270 | | |
| Gly | Leu | Phe | Tyr | Ala | Val | Gly | Thr | Pro | Ser | Leu | Asn | Pro | Leu | Val | Tyr |
| | | 275 | | | | | 280 | | | | | 285 | | | |
| Thr | Leu | Arg | Asn | Lys | Glu | Ile | Lys | Arg | Ala | Leu | Arg | Arg | Leu | Leu | Gly |
| | 290 | | | | | 295 | | | | | 300 | | | | |
| Lys | Glu | Arg | Asp | Ser | Arg | Glu | Ser | Trp | Arg | Ala | Ala | | | | |
| 305 | | | | | 310 | | | | | 315 | | | | | |

<210> 1694

<211> 309

<212> PRT

<213> Unknown (H38g611 protein)

<220>

<223> Synthetic construct

<400> 1694

[illegible]

<210> 1695
 <211> 216
 <212> PRT
 <213> Unknown (H38g612 protein)

<220>
 <223> Synthetic construct

<221> VARIANT
 <222> (1)...(216)
 <223> Xaa = Any Amino Acid

<400> 1695
 Trp Ala Asp Ile Gly Phe Thr Ser Ala Thr Ala Pro Lys Met Ile Val
 1 5 10 15
 Asp Met Gln Ser His Arg Arg Ala Ile Ser His Ala Gly Cys Leu Thr
 20 25 30
 Gln Met Ser Phe Leu Phe Leu Cys Ala Cys Val Glu Gly Met Leu Leu
 35 40 45
 Thr Val Met Ala Tyr Asp Cys Phe Val Asp Ile Cys Arg Pro Leu His
 50 55 60
 Tyr Pro Val Ile Gly Asn Pro His Phe Cys Val Phe Phe Val Gly Val
 65 70 75 80
 Ser Phe Leu Leu Ser Leu Trp Asp Ser Gln Leu His Ser Trp Ile Val
 85 90 95
 Leu Gln Ile Thr Ile Phe Lys Asn Val Glu Ile Ser Asn Phe Val Cys
 100 105 110
 Asp Pro Ser Gln Leu Leu Lys Leu Ala Cys Ser Asp Gly Val Ile Asn
 115 120 125
 Ser Ile Phe Ile Tyr Phe Asp Ser Thr Met Phe Gly Phe Leu Pro Ile
 130 135 140
 Ser Gly Ile Leu Trp Ser Tyr Tyr Lys Ile Val Pro Ser Ile Leu Arg
 145 150 155 160
 Ile Ser Ser Ser Asp Gly Lys Tyr Lys Ala Phe Ser Thr Cys Gly Ser
 165 170 175
 His Gln Ala Val Val Cys Xaa Phe Tyr Arg Thr Gly Ile Gly Met Tyr
 180 185 190
 Leu Thr Ser Ala Val Ser Pro Pro Arg Asn Gly Val Val Ala Ser
 195 200 205
 Leu Ile Tyr Ala Leu Val Thr Pro
 210 215

<210> 1696
 <211> 214
 <212> PRT
 <213> Unknown (H38g613 protein)

<220>
 <223> Synthetic construct

<400> 1696
 Phe Thr Asp Leu Phe Phe Val Thr Asn Thr Ile Pro Lys Met Leu Val
 1 5 10 15
 Asn Leu Gln Ser Gln Asn Lys Ala Ile Ser Tyr Thr Gly Cys Leu Thr
 20 25 30
 Gln Leu Tyr Phe Leu Val Ser Leu Val Ala Leu Asp Asn Leu Asn Leu
 35 40 45
 Ala Val Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Arg Pro Leu His
 50 55 60
 Tyr Val Thr Ala Met Ile Pro Gly Leu Cys Ile Leu Leu Leu Ser Leu
 65 70 75 80

Cys Trp Val Phe Ser Ala Leu Tyr Gly Leu Ile His Ile Leu Leu Met
 85 90 95
 Thr Arg Val Thr Phe Cys Gly Ser Gln Lys Ile His Tyr Leu Phe Cys
 100 105 110
 Glu Met Tyr Phe Leu Leu Arg Leu Ala Cys Ser Asn Ile His Val Asn
 115 120 125
 His Thr Val Leu Val Ala Thr Gly Cys Phe Ile Phe Leu Ile Pro Leu
 130 135 140
 Gly Phe Met Ile Thr Ser Asn Ala Arg Ile Val Arg Ala Ile Leu Gln
 145 150 155 160
 Ile Pro Ser Ala Thr Gly Lys Tyr Lys Ala Phe Ser Thr Cys Ala Ser
 165 170 175
 His Leu Ala Val Val Ser Leu Phe Tyr Gly Thr Leu Gly Met Val Tyr
 180 185 190
 Leu Gln Pro Leu Gln Thr Tyr Ser Met Lys Asp Ser Val Ala Thr Val
 195 200 205
 Met His Ala Val Val Thr
 210

<210> 1697

<211> 212

<212> PRT

<213> Unknown (H38g614 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(212)

<223> Xaa = Any Amino Acid

<400> 1697

Phe Val Asp Phe Cys Tyr Ser Thr Thr Ile Thr Pro Lys Leu Leu Glu
 1 5 10 15
 Asn Leu Val Val Glu Asp Arg Thr Ile Ser Phe Thr Gly Cys Thr Met
 20 25 30
 Gln Leu Phe Phe Val Cys Ile Phe Val Val Thr Glu Thr Phe Met Leu
 35 40 45
 Ala Val Met Ala Tyr Asp Arg Tyr Val Ala Val Cys Asn Pro Leu Leu
 50 55 60
 Tyr Thr Val Ala Met Tyr Gln Arg Leu Cys Ser Leu Leu Val Ala Thr
 65 70 75 80
 Ser Tyr Cys Trp Gly Ile Val Cys Ser Leu Thr Leu Thr Xaa Phe Leu
 85 90 95
 Leu Glu Leu Ser Phe Arg Gly Asn Asn Ile Ile Asn Asn Phe Val Cys
 100 105 110
 Glu His Ala Ala Ile Val Ala Val Ser Cys Ser Asp Pro Cys Val Ser
 115 120 125
 Gln Glu Ile Thr Leu Val Ser Ala Thr Phe Ser Glu Ile Ser Ser Leu
 130 135 140
 Thr Ser Tyr Ala Phe Ile Phe Ile Thr Val Met Lys Thr Pro Ser Thr
 145 150 155 160
 Gly Gly Arg Lys Lys Ala Phe Ser Thr Ser Ala Ser His Leu Thr Ala
 165 170 175
 Ile Thr Ile Phe His Gly Thr Ile Leu Phe Leu Tyr Cys Val Pro Asn
 180 185 190
 Ser Lys Ser Ser Trp Leu Met Val Lys Val Ala Ser Val Phe Tyr Thr
 195 200 205
 Val Val Ile Pro
 210

<210> 1698
 <211> 212
 <212> PRT
 <213> Unknown (H38g615 protein)

<220>
 <223> Synthetic construct

<221> VARIANT
 <222> (1)...(212)
 <223> Xaa = Any Amino Acid

<400> 1698
 Leu Val Asp Phe Cys Tyr Ser Thr Thr Ile Thr Pro Lys Leu Leu Arg
 1 5 10 15
 Asn Leu Val Val Glu Asp Arg Thr Ile Ser Phe Thr Gly Cys Thr Met
 20 25 30
 Gln Leu Phe Phe Val Cys Ile Phe Val Val Thr Glu Thr Phe Val Leu
 35 40 45
 Ala Val Met Ala Tyr Asp Arg Tyr Val Ala Val Cys Asn Pro Leu Leu
 50 55 60
 Tyr Thr Val Ala Met Tyr Gln Arg Leu Cys Ser Leu Leu Val Ala Thr
 65 70 75 80
 Ser Tyr Cys Trp Gly Ile Val Cys Ser Leu Thr Leu Thr Xaa Phe Leu
 85 90 95
 Leu Glu Leu Ser Phe Arg Gly Asn Asn Ile Ile Asn Asn Phe Val Cys
 100 105 110
 Glu His Ala Ala Ile Val Ala Val Ser Cys Ser Asp Pro Cys Val Ser
 115 120 125
 Gln Glu Ile Thr Leu Val Ser Ala Thr Phe Asn Glu Ile Ser Ser Leu
 130 135 140
 Thr Ser Tyr Ala Phe Ile Phe Ile Thr Val Met Arg Thr Pro Ser Thr
 145 150 155 160
 Gly Gly Arg Lys Lys Ala Phe Ser Thr Ser Ala Ser His Leu Thr Ala
 165 170 175
 Ile Thr Ile Phe His Gly Thr Ile Leu Phe Leu Tyr Cys Val Pro Asn
 180 185 190
 Ser Lys Ser Ser Trp Leu Met Val Lys Val Ala Ser Val Phe Tyr Thr
 195 200 205
 Val Val Ile Pro
 210

<210> 1699
 <211> 312
 <212> PRT
 <213> Unknown (H38g616 protein)

<220>
 <223> Synthetic construct

<400> 1699
 Met Ser Ile Ser Asn Ile Thr Val Tyr Met Pro Ser Val Leu Thr Leu
 1 5 10 15
 Val Gly Ile Pro Gly Leu Glu Ser Val Gln Cys Trp Ile Gly Ile Pro
 20 25 30
 Phe Cys Ala Ile Tyr Leu Ile Ala Met Ile Gly Asn Ser Leu Leu Leu
 35 40 45
 Ser Ile Ile Lys Ser Glu Arg Ser Leu His Glu Pro Leu Tyr Ile Phe
 50 55 60
 Leu Gly Met Leu Gly Ala Thr Asp Ile Ala Leu Ala Ser Ser Ile Met
 65 70 75 80

Pro Lys Met Leu Gly Ile Phe Trp Phe Asn Val Pro Glu Ile Tyr Phe
 85 90 95
 Asp Ser Cys Leu Leu Gln Met Trp Phe Ile His Thr Leu Gln Gly Ile
 100 105 110
 Glu Ser Gly Ile Leu Val Ala Met Ala Leu Asp Arg Tyr Val Ala Ile
 115 120 125
 Cys Tyr Pro Leu Arg His Ala Asn Ile Phe Thr His Gln Leu Val Ile
 130 135 140
 Gln Ile Gly Thr Met Val Val Leu Arg Ala Ala Ile Leu Val Ala Pro
 145 150 155 160
 Cys Leu Val Leu Ile Lys Cys Arg Phe Gln Phe Tyr His Thr Thr Val
 165 170 175
 Ile Ser His Ser Tyr Cys Glu His Met Ala Ile Val Lys Leu Ala Ala
 180 185 190
 Ala Asn Val Gln Val Asn Lys Ile Tyr Gly Leu Phe Val Ala Phe Thr
 195 200 205
 Val Ala Gly Phe Asp Leu Thr Phe Ile Thr Leu Ser Tyr Ile Gln Ile
 210 215 220
 Phe Ile Thr Val Phe Arg Leu Pro Gln Lys Glu Ala Arg Phe Lys Ala
 225 230 235 240
 Phe Asn Thr Cys Ile Ala His Ile Cys Val Phe Leu Gln Phe Tyr Leu
 245 250 255
 Leu Ala Phe Phe Ser Phe Phe Thr His Arg Phe Gly Ser His Ile Pro
 260 265 270
 Pro Tyr Ile His Ile Leu Phe Ser Ser Ile Tyr Leu Leu Val Pro Pro
 275 280 285
 Phe Leu Asn Pro Leu Val Tyr Gly Ala Lys Thr Thr Gln Ile Arg Ile
 290 295 300
 His Val Val Lys Met Phe Cys Ser
 305 310

<210> 1700

<211> 318

<212> PRT

<213> Unknown (H38g617 protein)

<220>

<223> Synthetic construct

<400> 1700

Met Trp Gln Lys Asn Gln Thr Ser Leu Ala Asp Phe Ile Leu Glu Gly
 1 5 10 15
 Leu Phe Asp Asp Ser Leu Thr His Leu Phe Leu Phe Ser Leu Thr Met
 20 25 30
 Val Val Phe Leu Ile Ala Val Ser Gly Asn Thr Leu Thr Ile Leu Leu
 35 40 45
 Ile Cys Ile Asp Pro Gln Leu His Thr Pro Met Tyr Phe Leu Leu Ser
 50 55 60
 Gln Leu Ser Leu Met Asp Leu Met His Val Ser Thr Ile Ile Leu Lys
 65 70 75 80
 Met Ala Thr Asn Tyr Leu Ser Gly Lys Lys Ser Ile Ser Phe Val Gly
 85 90 95
 Cys Ala Thr Gln His Phe Leu Tyr Leu Cys Leu Gly Gly Ala Glu Cys
 100 105 110
 Phe Leu Leu Ala Val Met Ser Tyr Asp Arg Tyr Val Ala Ile Cys His
 115 120 125
 Pro Leu Arg Tyr Ala Val Leu Met Asn Lys Lys Val Gly Leu Met Met
 130 135 140
 Ala Val Met Ser Trp Leu Gly Ala Ser Val Asn Ser Leu Ile His Met
 145 150 155 160
 Ala Ile Leu Met His Phe Pro Phe Cys Gly Pro Arg Lys Val Tyr His

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<210> 1701
<211> 294
<212> PRT
<213> Unknown (H38g618 protein)
```

| | | | | | | | | | | | | | | | |
|-------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| <400> | 1701 | | | | | | | | | | | | | | |
| Ala | Thr | Tyr | Asn | Ser | Ser | Asn | Thr | Val | Val | Thr | Glu | Phe | Val | Phe | Leu |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |
| Ser | Phe | Pro | Glu | Leu | His | His | Leu | Gln | Gly | Leu | Leu | Phe | Val | Ser | Leu |
| | | | 20 | | | | | 25 | | | | | 30 | | |
| Leu | Ile | Ile | Tyr | Val | Val | Thr | Ile | Leu | Glu | Asp | Leu | Ala | Val | Val | Gly |
| | | 35 | | | | | 40 | | | | | 45 | | | |
| Thr | Ile | Arg | Ala | Ser | His | His | Leu | His | Ile | Ser | Thr | His | Leu | Phe | Leu |
| | 50 | | | | | 55 | | | | | 60 | | | | |
| Ala | Gln | Leu | Ser | Val | Leu | Glu | Thr | Leu | Tyr | Thr | Ser | Val | Thr | Val | Pro |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |
| Lys | Leu | Leu | Ala | Gly | Leu | Pro | Ala | Glu | Arg | Arg | Pro | Ser | Ile | Ser | Phe |
| | | | | 85 | | | | | 90 | | | | | 95 | |
| Ser | Gly | His | Leu | Thr | Trp | Leu | Leu | Leu | Phe | Leu | Ser | Leu | Ser | Ser | Ser |
| | | | 100 | | | | | 105 | | | | | 110 | | |
| Glu | Cys | Val | Leu | Pro | Ala | Asn | Met | Asp | Cys | Asp | Trp | His | Pro | Val | Ile |
| | | 115 | | | | | 120 | | | | | 125 | | | |
| Cys | His | Leu | Leu | His | Tyr | Leu | Ser | Pro | Ser | Trp | Thr | Pro | Cys | Ser | Trp |
| | | 130 | | | | 135 | | | | | 140 | | | | |
| Leu | Cys | Leu | His | Leu | Ala | Ile | Ser | Ala | Gln | Leu | Ser | Ser | Phe | Pro | Ala |
| 145 | | | | | 150 | | | | | 155 | | | | | 160 |
| Ser | Phe | Val | Ser | Thr | Ala | Leu | Asn | Ser | Ser | Leu | Arg | Leu | Arg | Ser | Pro |
| | | | | 165 | | | | | 170 | | | | | 175 | |
| Asp | Val | Leu | Asn | His | Phe | Cys | Asp | Ile | Pro | Pro | Pro | Leu | Gly | Leu | Ser |
| | | | 180 | | | | | 185 | | | | | 190 | | |
| Cys | Ser | Ser | Thr | Thr | Thr | Ile | Glu | Met | Arg | Thr | Gln | Ala | Ala | Gln | Val |
| | | 195 | | | | | 200 | | | | | 205 | | | |
| Ile | Leu | Ala | Ala | Ser | Leu | Gln | Ala | Thr | Thr | Val | Ser | Tyr | Thr | His | Ile |
| | 210 | | | | | 215 | | | | | 220 | | | | |
| Leu | Ala | Arg | Ser | Leu | Arg | Ile | Pro | Glu | Arg | Pro | Ser | Lys | Leu | Lys | Ala |
| 225 | | | | | 230 | | | | | 235 | | | | | 240 |
| Phe | Pro | Thr | Tyr | Ala | Ser | His | Leu | Gly | Cys | Gly | Ser | Ser | Asn | Leu | Ile |
| | | | | 245 | | | | | 250 | | | | | 255 | |

Lys Leu Val Ser Gly Val Tyr Leu Val Gly Ile Pro Leu Leu Lys Pro
 260 265 270
 Ile Ile Tyr Cys Leu Arg Asn Cys Asn Ile Arg Glu Ala Leu Ala Lys
 275 280 285
 Leu Leu Gln Ala Leu Pro
 290

<210> 1702

<211> 295

<212> PRT

<213> Unknown (H38g619 protein)

<220>

<223> Synthetic construct

<400> 1702

Ala Thr Tyr Asn Ser Ser Asn Thr Val Val Thr Glu Phe Val Phe Leu
 1 5 10 15
 Ser Phe Pro Glu Leu Arg His Leu Gln Gly Leu Leu Phe Gly Leu Leu
 20 25 30
 Leu Ile Ile Tyr Val Val Thr Ile Leu Glu Asp Leu Ala Val Val Gly
 35 40 45
 Thr Ile Arg Ala Ser His His Leu His Ile Ser Thr His Leu Phe Leu
 50 55 60
 Ala Lys Leu Ser Val Leu Glu Thr Leu Tyr Thr Ser Val Thr Val Pro
 65 70 75 80
 Lys Leu Leu Ala Gly Leu Pro Gly Thr Ser Asp Asp His Leu Ile Ser
 85 90 95
 Phe Ser Gly His Leu Thr Trp Leu Leu Phe Leu Ser Leu Ser Ser
 100 105 110
 Ser Glu Cys Ile Leu Pro Ala Asn Met Asp Cys Asp Trp His Pro Val
 115 120 125
 Ile Cys His Leu Leu His Tyr Pro Ala His His Gly Leu His Ala Ala
 130 135 140
 Arg Leu Cys Leu His Leu Ala Ile Ser Ala Gln Leu Ser Ser Phe Pro
 145 150 155 160
 Ala Ser Phe Val Ser Thr Ala Leu Asn Ser Ser Leu Arg Leu Arg Ser
 165 170 175
 Pro Asp Val Leu Asn His Phe Cys Asp Ile Pro Pro Pro Leu Gly Leu
 180 185 190
 Ser Cys Ser Ser Thr Thr Thr Ile Glu Met Arg Thr Gln Ala Ala Gln
 195 200 205
 Val Ile Leu Ala Ala Ser Leu Gln Ala Thr Thr Val Ser Tyr Thr His
 210 215 220
 Ile Leu Ala Arg Ser Leu Arg Ile Pro Ala Lys Ala Gln Gln Leu Lys
 225 230 235 240
 Ala Phe Pro Thr Tyr Ala Ser His Leu Gly Trp Arg Pro Ser Asn Leu
 245 250 255
 Ile Lys Leu Val Ser Gly Val Tyr Leu Val Gly Ile Pro Leu Leu Lys
 260 265 270
 Pro Ile Ile Tyr Cys Leu Arg Asn Cys Asn Ile Arg Glu Ala Leu Ala
 275 280 285
 Lys Leu Leu Gln Ala Leu Pro
 290 295

<210> 1703

<211> 175

<212> PRT

<213> Unknown (H38g620 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(175)

<223> Xaa = Any Amino Acid

<400> 1703

```

Leu Leu Met Ala Ala Asp Asn His Thr Arg Val Glu Ala Phe Val Leu
 1           5           10           15
Gln Gly Phe Ser Glu Asp Leu Pro Leu Gln Gly Cys Cys Phe Ala Phe
          20           25           30
Phe Leu Leu Tyr Leu Met Ala Leu Val Gly Asn Ile Leu Met Val Met
          35           40           45
Ala Ile Ser Leu Asn Pro Gly Leu His Thr Pro Val Tyr Phe Phe Leu
          50           55           60
Thr Asn Leu Ala Leu Leu Asp Ile Val Cys Thr Ser Met Asp Asn Ser
65           70           75           80
Arg Val Val Ala Val Leu Tyr Thr Val Val Ser Pro Thr Leu Asn Pro
          85           90           95
Ser Pro Thr Pro Cys Gly Thr Arg Thr Tyr Gln Xaa His Xaa Gly Glu
          100          105          110
Cys Phe Leu Ala Ser Gly Lys Arg Lys Gly Ser Phe Xaa Cys Glu Met
          115          120          125
Phe Gln Val Leu Thr Asn Xaa Phe Gln His Met Thr Leu Arg Ile Ser
          130          135          140
Cys Lys Gln Gln Gly Thr Arg Lys Xaa Leu Met Pro His Ile Tyr Lys
145          150          155          160
Xaa Cys Ala Pro Ala Arg Gly Cys His His Ser Met Trp Asn Ser
          165          170          175

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<210> 1704

<211> 317

<212> PRT

<213> Unknown (H38g621 protein)

<220>

<223> Synthetic construct

<400> 1704

```

Met Glu Arg Thr Asn Asp Ser Thr Ser Thr Glu Phe Phe Leu Val Gly
 1           5           10           15
Leu Ser Ala His Pro Lys Leu Gln Thr Val Phe Phe Val Leu Ile Leu
          20           25           30
Trp Met Tyr Leu Met Ile Leu Leu Gly Asn Gly Val Leu Ile Ser Val
          35           40           45
Ile Ile Phe Asp Ser His Leu His Thr Pro Met Tyr Phe Phe Leu Cys
          50           55           60
Asn Leu Ser Phe Leu Asp Val Cys Tyr Thr Ser Ser Val Pro Leu
65           70           75           80
Ile Leu Ala Ser Phe Leu Ala Val Lys Lys Lys Val Ser Phe Ser Gly
          85           90           95
Cys Met Val Gln Met Phe Ile Ser Phe Ala Met Gly Ala Thr Glu Cys
          100          105          110
Met Ile Leu Gly Thr Met Ala Leu Asp Arg Tyr Val Ala Ile Cys Tyr
          115          120          125
Pro Leu Arg Tyr Pro Val Ile Met Ser Lys Gly Ala Tyr Val Ala Met
          130          135          140
Ala Ala Gly Ser Trp Val Thr Gly Leu Val Asp Ser Val Val Gln Thr
145          150          155          160
Ala Phe Ala Met Gln Leu Pro Phe Cys Ala Asn Asn Val Ile Lys His
          165          170          175

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Phe Val Cys Glu Ile Leu Ala Ile Leu Lys Leu Ala Cys Ala Asp Ile
 180 185 190
 Ser Ile Asn Val Ile Ser Met Thr Gly Ser Asn Leu Ile Val Leu Val
 195 200 205
 Ile Pro Leu Leu Val Ile Ser Ile Ser Tyr Ile Phe Ile Val Ala Thr
 210 215 220
 Ile Leu Arg Ile Pro Ser Thr Glu Gly Lys His Lys Ala Phe Ser Thr
 225 230 235 240
 Cys Ser Ala His Leu Thr Val Val Ile Ile Phe Tyr Gly Thr Ile Phe
 245 250 255
 Phe Met Tyr Ala Lys Pro Glu Ser Lys Ala Ser Val Asp Ser Gly Asn
 260 265 270
 Glu Asp Ile Ile Glu Ala Leu Ile Ser Leu Phe Tyr Gly Val Met Thr
 275 280 285
 Pro Met Leu Asn Pro Leu Ile Tyr Ser Leu Arg Asn Lys Asp Val Lys
 290 295 300
 Ala Ala Val Lys Asn Ile Leu Cys Arg Lys Asn Phe Ser
 305 310 315

<210> 1705

<211> 318

<212> PRT

<213> Unknown (H38g622 protein)

<220>

<223> Synthetic construct

<400> 1705

Met Glu Trp Glu Asn Gln Thr Ile Leu Val Glu Phe Phe Leu Lys Gly
 1 5 10 15
 His Ser Val His Pro Arg Leu Glu Leu Leu Phe Phe Val Leu Ile Phe
 20 25 30
 Ile Met Tyr Val Val Ile Leu Leu Gly Asn Gly Thr Leu Ile Leu Ile
 35 40 45
 Ser Ile Leu Asp Pro His Leu His Thr Pro Met Tyr Phe Phe Leu Gly
 50 55 60
 Asn Leu Ser Phe Leu Asp Ile Cys Tyr Thr Thr Thr Ser Ile Pro Ser
 65 70 75 80
 Thr Leu Val Ser Phe Leu Ser Glu Arg Lys Thr Ile Ser Phe Ser Gly
 85 90 95
 Cys Ala Val Gln Met Phe Leu Gly Leu Ala Met Gly Thr Thr Glu Cys
 100 105 110
 Val Leu Leu Gly Met Met Ala Phe Asp Arg Tyr Val Ala Ile Cys Asn
 115 120 125
 Pro Leu Arg Tyr Pro Ile Ile Met Ser Lys Asn Ala Tyr Val Pro Met
 130 135 140
 Ala Val Gly Ser Trp Phe Ala Gly Ile Val Asn Ser Ala Val Gln Thr
 145 150 155 160
 Thr Phe Val Val Gln Leu Pro Phe Cys Arg Lys Asn Val Ile Asn His
 165 170 175
 Phe Ser Cys Glu Ile Leu Ala Val Met Lys Leu Ala Cys Ala Asp Ile
 180 185 190
 Ser Gly Asn Glu Phe Leu Met Leu Val Ala Thr Ile Leu Phe Thr Leu
 195 200 205
 Met Pro Leu Leu Leu Ile Val Ile Ser Tyr Ser Leu Ile Ile Ser Ser
 210 215 220
 Ile Leu Lys Ile His Ser Ser Glu Gly Arg Ser Lys Ala Phe Ser Thr
 225 230 235 240
 Cys Ser Ala His Leu Thr Val Val Ile Ile Phe Tyr Gly Thr Ile Leu
 245 250 255
 Phe Met Tyr Met Lys Pro Lys Ser Lys Glu Thr Leu Asn Ser Asp Asp

| | | |
|---|-----|-----|
| 260 | 265 | 270 |
| Leu Asp Ala Thr Asp Lys Ile Ile Ser Met Phe Tyr Gly Val Met Thr | | |
| 275 | 280 | 285 |
| Pro Met Met Asn Pro Leu Ile Tyr Ser Leu Arg Asn Lys Asp Val Lys | | |
| 290 | 295 | 300 |
| Glu Ala Val Lys His Leu Pro Asn Arg Arg Phe Phe Ser Lys | | |
| 305 | 310 | 315 |

<210> 1706

<211> 124

<212> PRT

<213> Unknown (H38g623 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(124)

<223> Xaa = Any Amino Acid

<400> 1706

| | | |
|---|-----|-----|
| Phe Leu Leu Xaa Ala Asn Tyr Ser Ala Glu Glu Arg Phe Leu Leu Leu | | |
| 1 | 5 | 10 |
| Gly Phe Ser Asp Trp Pro Ser Leu Gln Pro Val Leu Phe Ala Leu Val | | |
| 20 | 25 | 30 |
| Leu Leu Cys Tyr Leu Leu Thr Leu Thr Gly Asn Ser Ala Leu Val Leu | | |
| 35 | 40 | 45 |
| Leu Ala Val Asp Pro Arg Leu His Thr Pro Met Tyr Tyr Phe Leu Cys | | |
| 50 | 55 | 60 |
| His Leu Ala Leu Val Asp Ala Gly Phe Thr Thr Ser Val Val Pro Pro | | |
| 65 | 70 | 75 |
| Leu Leu Ala Asn Leu Arg Gly Pro Ala Leu Tyr Val Pro Arg Ser His | | |
| 85 | 90 | 95 |
| Cys Thr Ala Gln Leu Cys Ala Ser Leu Ala Leu Gly Ser Ala Glu Cys | | |
| 100 | 105 | 110 |
| Val His Leu Ala Val Met Ala Leu Gly Arg Ala Val | | |
| 115 | 120 | |

<210> 1707

<211> 315

<212> PRT

<213> Unknown (H38g624 protein)

<220>

<223> Synthetic construct

<400> 1707

| | | |
|---|-----|-----|
| Met Arg Gln Asn Asn Asn Ile Thr Glu Phe Val Leu Leu Gly Phe Ser | | |
| 1 | 5 | 10 |
| Gln Asp Pro Gly Val Gln Lys Ala Leu Phe Val Met Phe Leu Leu Thr | | |
| 20 | 25 | 30 |
| Tyr Leu Val Thr Val Val Gly Asn Leu Leu Ile Val Val Asp Ile Ile | | |
| 35 | 40 | 45 |
| Ala Ser Pro Ser Leu Gly Ser Pro Met Tyr Phe Phe Leu Ala Cys Leu | | |
| 50 | 55 | 60 |
| Ser Phe Ile Asp Ala Ala Tyr Ser Thr Thr Ile Ser Pro Lys Leu Ile | | |
| 65 | 70 | 75 |
| Val Gly Leu Phe Cys Asp Lys Lys Thr Ile Ser Phe Gln Gly Cys Met | | |
| 85 | 90 | 95 |
| Gly Gln Leu Phe Ile Asp His Phe Phe Gly Gly Ala Glu Val Phe Leu | | |
| 100 | 105 | 110 |

```

Leu Val Val Met Ala Cys Asp Arg Tyr Val Ala Ile Cys Lys Pro Leu
    115                120                125
His Tyr Leu Thr Ile Met Asn Arg Gln Val Cys Phe Leu Leu Leu Val
    130                135                140
Val Ala Met Ile Gly Gly Phe Val His Ser Ala Phe Gln Ile Val Val
    145                150                155                160
Tyr Ser Leu Pro Phe Cys Gly Pro Asn Val Ile Val His Phe Ser Cys
    165                170                175
Asp Met His Pro Leu Leu Glu Leu Ala Cys Thr Asp Thr Tyr Phe Ile
    180                185                190
Gly Leu Thr Val Val Val Asn Ser Gly Ala Ile Cys Met Val Ile Phe
    195                200                205
Asn Leu Leu Leu Ile Ser Tyr Gly Val Ile Leu Ser Ser Leu Lys Thr
    210                215                220
Tyr Ser Gln Glu Lys Arg Gly Lys Ala Leu Ser Thr Cys Ser Ser Gly
    225                230                235                240
Ser Thr Val Val Val Leu Phe Phe Val Pro Cys Ile Phe Ile Tyr Val
    245                250                255
Arg Pro Val Ser Asn Phe Pro Thr Asp Lys Phe Met Thr Val Phe Tyr
    260                265                270
Thr Ile Ile Thr His Met Leu Ser Pro Leu Ile Tyr Thr Leu Arg Asn
    275                280                285
Ser Glu Met Arg Asn Ala Ile Glu Lys Leu Leu Gly Lys Lys Leu Thr
    290                295                300
Ile Phe Ile Ile Gly Gly Val Ser Val Leu Met
    305                310                315

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<210> 1708

<211> 117

<212> PRT

<213> Unknown (H38g625 protein)

<220>

<223> Synthetic construct

<400> 1708

```

Arg Cys Ala Pro Arg Leu Leu Asp His Phe Ile Cys Glu Leu Pro Ala
    1         5         10         15
Leu Leu Lys Leu Ala Cys Gly Gly Asp Gly Asp Thr Thr Glu Asn Gln
    20         25         30
Met Phe Ala Ala Arg Val Val Ile Leu Leu Leu Pro Phe Ala Val Ile
    35         40         45
Leu Ala Ser Tyr Gly Ala Val Ala Arg Ala Val Cys Cys Met Arg Phe
    50         55         60
Ser Gly Gly Arg Gln Arg Ala Val Gly Thr Cys Gly Ser His Leu Thr
    65         70         75         80
Ala Val Cys Leu Phe Tyr Gly Ser Ala Ile Tyr Thr Tyr Leu Gln Pro
    85         90         95
Ala Gln Arg Tyr Asn Gln Ala Arg Gly Lys Phe Val Ser Leu Phe Tyr
    100        105        110
Thr Val Val Thr Pro
    115

```

<210> 1709

<211> 313

<212> PRT

<213> Unknown (H38g626 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(313)

<223> Xaa = Any Amino Acid

<400> 1709

```

Gly Leu Ser Asn Asn Val Thr Glu Phe Val Leu Leu Gly Asn Thr Gln
 1           5           10           15
Cys Pro Asp Val Gln Asn Ala Leu Phe Val Met Val Leu Leu Thr Tyr
      20           25           30
Val Val Ser Met Ala Gly Asn Leu Leu Ala Val Val Ala Ile Ile Ser
      35           40           45
Ser Pro Ser Phe Gly Ser Pro Met Tyr Phe Phe Leu Thr Cys Leu Leu
      50           55           60
Phe Ile Tyr Ala Ala Tyr Ser Asn Thr Ile Ser Pro Lys Leu Ile Ile
65           70           75           80
Gly Leu Leu His Asp Lys Lys Thr Ile Phe Phe Thr Ala Cys Met Gly
      85           90           95
Gln Leu Phe Ile Asp His Leu Phe Gly Gly Ala Glu Val Phe Leu Leu
      100          105          110
Val Gly Met Ser Tyr Asp Phe Tyr Val Ala Ile Ser Lys Pro Leu His
      115          120          125
Tyr Leu Thr Ile Met Asn Gln Gln Val Cys Ile Leu Leu Val Val
      130          135          140
Ala Val Thr Gly Gly Phe Val Ser Cys Val Phe Gln Ile Val Val Val
145          150          155          160
Tyr Thr Leu Ser Phe Cys Gly Pro Asn Val Thr Asp His Phe Val Cys
      165          170          175
Asp Met Tyr Pro Leu Leu Glu Leu Val Cys Thr Asp Thr Tyr Phe Ile
      180          185          190
Gly Leu Thr Val Val Ala Asn Gly Leu Ala Ile Cys Met Val Val Phe
      195          200          205
Thr Leu Leu Leu Ile Ser Tyr Gly Val Ile Leu Asn Asn Phe Lys Thr
      210          215          220
Tyr Ser Gln Glu Gly Arg Leu Lys Ala Leu Ser Ala Cys Ile Ser Tyr
225          230          235          240
Ile Thr Val Thr Val Leu Phe Leu Val Pro Cys Ile Phe Leu Phe Val
      245          250          255
Arg Pro Val Ser Asn Phe Pro Ile Asp Lys Phe Met Thr Val Phe Tyr
      260          265          270
Thr Val Ile Ile His Met Leu Asn Pro Leu Ile Tyr Thr Leu Arg Asn
      275          280          285
Leu Glu Met Arg Ile Ala Val Lys Ser Asn Val Lys Lys Leu Trp His
      290          295          300
Xaa Lys Leu Asn Tyr Ser Xaa Asn Glu
305          310

```

<210> 1710

<211> 323

<212> PRT

<213> Unknown (H38g627 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(323)

<223> Xaa = Any Amino Acid

<400> 1710

```

Met Arg Leu Ser Ser Asp Val Thr Ala Phe Val Leu Leu Gly Leu Thr
 1           5           10           15

```


Gln Asp Pro Asp Val Xaa Asn Ala Leu Phe Val Val His Leu Leu Thr
 20 25 30
 Tyr Ile Met Thr Met Val Gly Asn Leu Pro Ile Val Val Thr Ile Ile
 35 40 45
 Ala Thr Pro Thr Leu Gly Ser Pro Val Tyr Phe Phe Ile Val Cys Leu
 50 55 60
 Ser Phe Ile Asp Val Val Tyr Ser Thr Thr Ile Pro Pro Lys Leu Ile
 65 70 75 80
 Val Ser Tyr Leu His Asp Lys Lys Thr Ile Ser Phe Arg Ala Cys Met
 85 90 95
 Gly Gln Pro Phe Ile Asp His Leu Val Gly Gly Ala Glu Ala Phe Ile
 100 105 110
 Leu Leu Val Met Ala Tyr Asn Arg Tyr Val Ala Ile Cys Lys Pro Leu
 115 120 125
 His Tyr Phe Thr Ile Met Asn Xaa Gln Val Cys Ile Leu Leu Leu Val
 130 135 140
 Val Ala Val Thr Ala Gly Phe Val His Ser Val Phe Gln Ile Leu Val
 145 150 155 160
 Ala Tyr Ser Leu Leu Phe Cys Gly Pro Asn Ile Ile Asp His Phe Phe
 165 170 175
 Cys Asp Met Tyr Pro Leu Leu Glu Leu Ala His Thr Asp Thr Tyr Phe
 180 185 190
 Ile Gly Leu Thr Val Val Ala Asn Gly Gly Gly Ile Cys Met Val Leu
 195 200 205
 Phe Ile Leu Leu Leu Ile Ser Cys Gly Val Ile Leu Ile Ser Leu Lys
 210 215 220
 Thr Tyr Ser Gln Glu Gly Arg His Lys Ala Leu Ser Thr Cys Ser Ser
 225 230 235 240
 His Ile Thr Val Val Val Leu Phe Phe Val Pro Cys Ile Phe Leu Tyr
 245 250 255
 Val Arg Pro Val Ser Asn Phe Pro Ile Asn Lys Phe Ile Thr Val Phe
 260 265 270
 Tyr Thr Val Ile Thr Pro Met Leu Asn Pro Leu Ile Tyr Thr Leu Arg
 275 280 285
 Asn Xaa Glu Met Lys Asn Ala Ile Gly Asn Leu Trp Cys Lys Tyr Xaa
 290 295 300
 Leu Xaa Ile Glu Xaa Glu Gly Thr Phe Ser Cys Arg Tyr Arg Val Met
 305 310 315 320
 Gln Val Lys

<210> 1711

<211> 235

<212> PRT

<213> Unknown (H38g628 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(235)

<223> Xaa = Any Amino Acid

<400> 1711

Pro Met Tyr Leu Phe Leu Gly Asn Leu Ser Phe Ile Asp Leu Cys Tyr
 1 5 10 15
 Ser Phe Val Phe Thr Pro Lys Met Leu Met Ser Phe Ile Ser Glu Arg
 20 25 30
 Asn Ile Ile Ser Phe Pro Gly Cys Ile Thr Gln Leu Phe Phe Phe Cys
 35 40 45
 Phe Phe Val His Ser Glu Cys Tyr Val Leu Thr Ala Met Ala Tyr Asp

| | | |
|---|-----|-----|
| 50 | 55 | 60 |
| Arg Tyr Val Ala Ile Cys Lys Pro Leu Leu Tyr Met Val Thr Thr Ser | | |
| 65 | 70 | 75 |
| Pro Gln Ile Cys Ser Leu Leu Met Leu Gly Ser Tyr Val Met Gly Phe | | 80 |
| | 85 | 90 |
| Ala Gly Ala Met Val His Thr Glu Cys Met Met Lys Leu Ile Phe Cys | | 95 |
| | 100 | 105 |
| Asp Ser Asn Val Ile Asn His Asn Met Cys Asp Ile Phe Pro Leu Leu | | 110 |
| | 115 | 120 |
| Gln Leu Ser Cys Ser Ser Thr Xaa Ala Asn Glu Leu Val Met Ser Val | | 125 |
| | 130 | 135 |
| Ile Val Gly Thr Val Val Ile Val Ser Ser Leu Ile Ile Leu Ile Ser | | 140 |
| | 145 | 150 |
| Tyr Ala Leu Ile Leu Phe Asn Ile Leu His Met Ser Ser Ala Glu Gly | | 155 |
| | 165 | 170 |
| Trp Phe Lys Ala Ile Gly Thr Cys Gly Ser His Ile Ile Thr Val Gly | | 175 |
| | 180 | 185 |
| Leu Phe Tyr Glu Phe Gly Leu Ile Thr His Val Lys Leu Ser Ser Asp | | 190 |
| | 195 | 200 |
| Trp Tyr Met Gly Gln Gly Lys Phe Leu Ser Val Phe Tyr Thr Asn Val | | 205 |
| | 210 | 215 |
| Val Pro Met Leu Asn Pro Phe Ile Tyr Cys Leu | | 220 |
| 225 | 230 | 235 |

<210> 1712

<211> 308

<212> PRT

<213> Unknown (H38g629 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(308)

<223> Xaa = Any Amino Acid

<400> 1712

| | | |
|---|-----|-----|
| Met Arg Gln Asn Asn Asn Ile Thr Glu Phe Val Leu Leu Gly Phe Ser | | |
| 1 | 5 | 10 |
| Gln Tyr Pro Asp Val Gln Asn Ala Leu Phe Val Met Phe Leu Leu Ile | | 15 |
| | 20 | 25 |
| Tyr Ile Val Thr Met Val Gly Asn Leu Leu Ile Val Val Ser Ile Ile | | 30 |
| | 35 | 40 |
| Ala Ser Pro Phe Leu Gly Ser Pro Val Tyr Phe Phe Leu Ala Cys Leu | | 45 |
| | 50 | 55 |
| Ser Phe Ile Asp Ala Val Tyr Ser Thr Thr Ile Ser Pro Val Leu Ile | | 60 |
| | 65 | 70 |
| Val Asp Leu Leu Cys Asp Lys Lys Thr Ile Ser Phe Pro Ala Cys Met | | 75 |
| | 85 | 90 |
| Gly Gln Leu Phe Ile Glu His Leu Phe Gly Asp Thr Asp Val Phe Leu | | 95 |
| | 100 | 105 |
| Leu Val Val Met Ala Tyr Asp Arg Tyr Val Ala Thr Cys Lys Pro Leu | | 110 |
| | 115 | 120 |
| Arg Tyr Leu Thr Ile Met Asn Xaa Gln Val Cys Ile Leu Leu Leu Val | | 125 |
| | 130 | 135 |
| Val Ala Val Thr Gly Gly Phe Leu His Ser Val Phe Gln Ile Leu Val | | 140 |
| | 145 | 150 |
| Val Tyr Ser Leu Pro Phe Cys Gly Pro Asn Val Ile Tyr His Phe Phe | | 155 |
| | 165 | 170 |
| Cys Asn Ile Tyr Pro Leu Leu Asp Leu Glu Cys Thr Asp Thr Tyr Phe | | 175 |
| | 180 | 185 |
| | | 190 |

Val Gly Leu Ala Val Val Phe Asn Gly Gly Ala Ile Cys Met Val Ile
 195 200 205
 Phe Thr Leu Leu Leu Ile Ser Tyr Gly Val Ile Leu Asn Ser Leu Lys
 210 215 220
 Thr Tyr Ser Pro Glu Gly Arg His Lys Ala Pro Phe Ile Cys Ser Ser
 225 230 235 240
 His Phe Ile Met Val Ile Leu Phe Phe Val Pro Cys Ile Phe Leu Tyr
 245 250 255
 Val Arg Pro Val Ser Asn Phe Pro Ile Asp Lys Phe Leu Thr Val Phe
 260 265 270
 Tyr Ser Val Ile Thr Pro Lys Leu Asn Pro Phe Ile Tyr Met Leu Arg
 275 280 285
 Asn Ser Glu Met Arg Asn Ala Ile Glu Asn Leu Leu Gly Tyr Gln Ser
 290 295 300
 Gly Lys Thr Gly
 305

<210> 1713

<211> 230

<212> PRT

<213> Unknown (H38g630 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(230)

<223> Xaa = Any Amino Acid

<400> 1713

Pro Met Tyr Leu Phe Leu Ala Asn Leu Ser Leu Pro Asp Ile Gly Phe
 1 5 10 15
 Thr Ser Ser Met Val Pro Lys Met Ile Val Asp Ile Xaa Ser His Ser
 20 25 30
 Arg Leu Ile Ser Xaa Ala Gly Cys Leu Thr Pro Met Ser Leu Phe Ala
 35 40 45
 Ile Phe Gly Gly Met Glu Glu Asn Met Leu Leu Ser Val Ile Ala Tyr
 50 55 60
 Asp Pro Phe Val Ala Ile Cys His Pro Leu Tyr His Ser Ala Ile Met
 65 70 75 80
 Asn Pro Cys Phe Cys Gly Phe Leu Val Leu Ser Phe Phe Ser Gln
 85 90 95
 Ser Leu Leu Asp Ala Gln Val His Asn Leu Ile Ala Leu Gln Met Thr
 100 105 110
 Cys Phe Lys Asp Val Glu Ile Pro Asn Phe Phe Trp Glu Pro Ser Gln
 115 120 125
 Leu Pro His Leu Ala Cys Cys Asp Thr Phe Thr Asn Asn Ile Ile Met
 130 135 140
 Tyr Ser Pro Ala Ala Ile Phe Gly Phe Leu Pro Ile Ser Gly Thr Leu
 145 150 155 160
 Phe Ser Tyr Tyr Lys Ile Val Ser Ser Ile Arg Arg Val Ser Ser Ser
 165 170 175
 Gly Gly Lys Tyr Lys Ala Cys Ser Thr Cys Gly Ser His Leu Ser Val
 180 185 190
 Val Cys Xaa Phe Tyr Gly Thr Gly Phe Trp Gly Tyr Leu Ser Ser Asp
 195 200 205
 Val Ser Ser Ser Pro Gly Lys Ala Ala Val Ala Ser Val Met Tyr Thr
 210 215 220
 Val Val Thr Pro Met Leu
 225 230

<210> 1714
 <211> 227
 <212> PRT
 <213> Unknown (H38g632 protein)

<220>
 <223> Synthetic construct

<400> 1714
 Ser Phe Leu Glu Ile Gly Phe Asn Leu Val Ile Val Pro Lys Met Leu
 1 5 10 15
 Gly Thr Leu Leu Ala Gln Asp Thr Thr Ile Ser Phe Leu Gly Cys Ala
 20 25 30
 Thr Gln Met Tyr Phe Phe Phe Phe Phe Gly Val Ala Glu Cys Phe Leu
 35 40 45
 Leu Ala Thr Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Ser Pro Leu
 50 55 60
 His Tyr Pro Val Ile Met Asn Gln Arg Thr Arg Ala Lys Leu Ala Ala
 65 70 75 80
 Ala Ser Trp Phe Pro Gly Phe Pro Val Ala Thr Val Gln Thr Thr Trp
 85 90 95
 Leu Phe Ser Phe Pro Phe Cys Gly Thr Asn Lys Val Asn His Phe Phe
 100 105 110
 Cys Asp Ser Pro Pro Val Leu Lys Leu Val Cys Ala Asp Thr Ala Leu
 115 120 125
 Phe Glu Ile Tyr Ala Ile Val Gly Thr Ile Leu Val Val Met Ile Pro
 130 135 140
 Cys Leu Leu Ile Leu Cys Ser Tyr Thr Arg Ile Ala Ala Ala Ile Leu
 145 150 155 160
 Lys Ile Pro Ser Ala Lys Gly Lys His Lys Ala Phe Ser Thr Cys Ser
 165 170 175
 Ser His Leu Leu Val Val Ser Leu Phe Tyr Ile Ser Leu Ser Leu Thr
 180 185 190
 Tyr Phe Arg Pro Lys Ser Asn Asn Ser Pro Glu Gly Lys Lys Leu Leu
 195 200 205
 Ser Leu Ser Tyr Thr Val Met Thr Pro Met Leu Asn Pro Phe His Leu
 210 215 220
 Leu Ser Trp
 225

<210> 1715
 <211> 192
 <212> PRT
 <213> Unknown (H38g633 protein)

<220>
 <223> Synthetic construct

<400> 1715
 Met Val Thr Glu Phe Leu Leu Leu Gly Phe Leu Leu Gly Pro Arg Ile
 1 5 10 15
 Gln Met Leu Leu Phe Gly Leu Phe Ser Leu Phe Tyr Val Phe Thr Leu
 20 25 30
 Leu Gly Asn Gly Thr Ile Leu Gly Leu Ile Ser Leu Asp Ser Arg Leu
 35 40 45
 His Thr Pro Met Tyr Phe Phe Leu Ser His Leu Ala Val Val Asp Ile
 50 55 60
 Ala Tyr Ala Cys Asn Thr Val Pro Arg Met Leu Val Asn Leu Leu His
 65 70 75 80
 Pro Ala Lys Pro Ile Ser Phe Ala Gly Arg Met Met Gln Thr Phe Leu
 85 90 95

Phe Ser Thr Phe Ala Val Thr Glu Cys Leu Leu Leu Val Val Met Ser
 100 105 110
 Tyr Asp Leu Tyr Val Ala Ile Cys His Pro Leu Arg Tyr Phe Ile Ile
 115 120 125
 Met Thr Trp Lys Val Cys Ile Thr Leu Ala Ile Thr Ser Trp Thr Cys
 130 135 140
 Gly Ser Leu Leu Ala Met Val His Val Ser Leu Ile Leu Arg Leu Pro
 145 150 155 160
 Phe Cys Gly Pro Arg Glu Ile Asn His Phe Leu Cys Glu Ile Leu Ala
 165 170 175
 Val Leu Arg Leu Gly Cys Ala Asp Thr Trp Leu Asn Gln Val Val Ile
 180 185 190

<210> 1716

<211> 308

<212> PRT

<213> Unknown (H38g634 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(308)

<223> Xaa = Any Amino Acid

<400> 1716

Tyr Ala Asp Pro Gln Asn Leu Thr Asp Val Ser Ile Phe Leu Leu Leu
 1 5 10 15
 Glu Leu Ser Glu Asp Pro Glu Leu Gln Pro Val Leu Ala Gly Leu Phe
 20 25 30
 Leu Ser Met Cys Leu Val Thr Val Leu Gly Asn Leu Leu Ile Ile Leu
 35 40 45
 Ala Ile Ser Pro Asp Ser His Leu His Thr Pro Met Tyr Phe Phe Leu
 50 55 60
 Ser Asn Leu Ser Leu Pro Asp Ile Gly Phe Thr Ser Thr Thr Val Pro
 65 70 75 80
 Lys Met Ile Val Asp Ile Gln Ser His Ser Arg Val Ile Ser Tyr Ala
 85 90 95
 Gly Cys Leu Thr Gln Met Ser Leu Phe Ala Ile Phe Gly Gly Met Glu
 100 105 110
 Glu Asn Met Leu Leu Ser Val Met Ala Tyr Asp Trp Phe Val Ala Ile
 115 120 125
 Cys His Pro Leu Tyr His Leu Thr Ile Met Asn Pro Cys Phe Cys Ala
 130 135 140
 Phe Leu Val Leu Leu Ser Phe Phe Phe Ser Val Phe Xaa His Ser Gln
 145 150 155 160
 Leu His Asn Leu Ile Ala Leu Gln Val Thr Cys Phe Lys Asp Val Glu
 165 170 175
 Ile Pro Asn Phe Phe Cys Asp Pro Ser Gln Leu Pro His Leu Ala Cys
 180 185 190
 Cys Asp Thr Phe Thr Asn Asn Ile Ile Met Tyr Phe Pro Ala Ala Ile
 195 200 205
 Phe Gly Phe Leu Pro Ile Ser Gly Thr Leu Phe Ser Tyr Tyr Lys Ile
 210 215 220
 Val Ser Ser Ile Leu Arg Val Ser Ser Ser Gly Gly Lys Tyr Lys Ala
 225 230 235 240
 Phe Ser Thr Cys Gly Ser His Leu Ser Val Val Cys Xaa Phe Tyr Gly
 245 250 255
 Arg Gly Val Gly Gly Tyr Leu Ser Ser Asp Val Ser Ser Ser Pro Arg
 260 265 270
 Lys Gly Ala Val Ala Ser Val Met Tyr Thr Val Val Thr Ser Met Leu

275 280 285
 Asn Pro Phe Ile Tyr Ser Leu Arg Asn Arg Asp Ile Lys Ser Val Leu
 290 295 300
 Arg Arg Pro Gln
 305

<210> 1717
 <211> 238
 <212> PRT
 <213> Unknown (H38g635 protein)

<220>
 <223> Synthetic construct

<400> 1717
 Met Tyr Leu Phe Leu Arg Asn Leu Ser Leu Pro Asp Ile Gly Phe Thr
 1 5 10 15
 Ser Thr Ile Val Pro Lys Met Ile Val Asp Ile Gln Ser His Ser Arg
 20 25 30
 Val Ile Ser Tyr Ala Gly Arg Leu Thr Gln Met Ser Leu Phe Ala Ile
 35 40 45
 Phe Gly Gly Met Glu Asp Asn Met Leu Leu Ser Val Met Ala Tyr Asp
 50 55 60
 Arg Phe Val Ala Ile Cys His Pro Leu Tyr His Ser Ala Ile Met Asn
 65 70 75 80
 Pro Cys Phe Cys Gly Phe Leu Leu Leu Leu Ser Phe Phe Phe Phe Leu
 85 90 95
 Ser Leu Leu Asp Thr Gln Leu His Asn Leu Ile Ala Leu Gln Met Thr
 100 105 110
 Cys Phe Lys Asp Val Glu Ile Pro Asn Phe Phe Cys Asp Pro Ser Gln
 115 120 125
 Leu Pro His Leu Ala Cys Cys Asp Thr Phe Thr Asn Asn Ile Ile Val
 130 135 140
 Tyr Phe Pro Ala Val Ile Phe Val Phe Leu Pro Ile Ser Gly Thr Leu
 145 150 155 160
 Phe Ser Leu Lys Leu Phe Val Ser Ser Ile Leu Arg Val Ser Ser Ser
 165 170 175
 Gly Gly Lys Tyr Lys Thr Phe Ser Thr Cys Gly Ser His Leu Ser Val
 180 185 190
 Ile Cys Leu Phe Tyr Gly Thr Gly Val Gly Gly Tyr Leu Ser Ser Asp
 195 200 205
 Val Ser Ser Ser Leu Arg Lys Ala Ala Val Ala Ser Val Met Tyr Lys
 210 215 220
 Met Val Thr Pro Met Leu Asn Pro Phe Ile Tyr Thr Leu Arg
 225 230 235

<210> 1718
 <211> 321
 <212> PRT
 <213> Unknown (H38g636 protein)

<220>
 <223> Synthetic construct

<221> VARIANT
 <222> (1)...(321)
 <223> Xaa = Any Amino Acid

<400> 1718
 Phe Lys Arg Ser Ile Thr Phe Thr Pro Thr Thr Phe Thr Leu Val Gly
 1 5 10 15

```

Ile Pro Gly Leu Glu Ala Glu His Tyr Trp Ile Ser Ile Pro Phe Cys
      20                      25                      30
Leu Ile Tyr Thr Ile Ile Phe Pro Gly Asn Gly Ile Ile Leu His Ile
      35                      40                      45
Ile Arg Ile Asp Ser Ser Leu His Gln Pro Met Tyr Tyr Phe Leu Ala
      50                      55                      60
Met Pro Ala Phe Val Glu Leu Gly Val Ser Ala Ser Thr Met Pro Thr
      65                      70                      75                      80
Val Leu Ser Ile Phe Leu Phe Gly Ile Asn Asp Val Ser Phe Gly Gly
      85                      90                      95
Cys Leu Leu Gln Met Phe Ser Met His Ser Phe Thr Leu Met Glu Ser
      100                     105                     110
Gly Val Leu Leu Ala Met Ser Val Asp Arg Phe Val Ala Ile Tyr Ser
      115                     120                     125
Pro Leu Arg Tyr Thr Thr Ile Leu Thr Ile Ala Cys Ile Ser Gly Met
      130                     135                     140
Gly Ala Ala Ile Ala Leu Arg Ser Val Met Leu Met Leu Pro Leu Leu
      145                     150                     155                     160
Phe Leu Leu Arg Arg Leu Pro Phe Cys Gly His Asn Thr Leu Thr His
      165                     170                     175
Ser Tyr Cys Leu His Ser Asp Leu Ile Lys Leu Pro Cys Gly Asp Thr
      180                     185                     190
Arg Pro Asn Ser Ile Leu Ala Leu Phe Val Ile Thr Phe Thr Phe Gly
      195                     200                     205
Leu Asp Leu Leu Phe Ile Val Val Ser Tyr Val Leu Ile Leu His Thr
      210                     215                     220
Val Leu Glu Ile Ala Ser Arg Ser Arg Ala Trp Gln Ala Leu Asn Thr
      225                     230                     235                     240
Cys Val Ser His Ile Cys Ala Val Leu Val Tyr Tyr Val Pro Met Ile
      245                     250                     255
Ser Leu Ser Xaa Val His Arg Phe Gly Arg His Leu Pro Pro Leu Phe
      260                     265                     270
Gln Thr Val Thr Ala Asn Ala Tyr Leu Phe Phe Pro Pro Val Val Asn
      275                     280                     285
Pro Ile Val Tyr Ser Ile Lys Ile Lys Glu Ile Arg Asn Ser Val Val
      290                     295                     300
Leu Thr Leu Ser Arg Lys Arg Gly Glu Phe Xaa Trp Arg Pro Lys Ile
      305                     310                     315                     320
Pro

```

<210> 1719

<211> 291

<212> PRT

<213> Unknown (H38g637 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(291)

<223> Xaa = Any Amino Acid

<400> 1719

```

Thr Ser Glu Asp Pro Glu Arg Gln Leu Val Leu Ala Gly Leu Phe Leu
  1                      5                      10                      15
Ser Met Cys Leu Val Met Val Leu Gly Asn Leu Leu Ile Ile Leu Ala
      20                      25                      30
Met Ser Pro Asp Ser His Leu His Thr Ser Met Tyr Phe Phe Leu Ser
      35                      40                      45
Asn Leu Ser Leu Pro Asp Ile Gly Phe Thr Ser Thr Thr Val Pro Gln

```

| | | |
|---|-----|-----|
| 50 | 55 | 60 |
| Met Thr Val Asp Ile Gln Ser Arg Ser Arg Val Ile Ser Tyr Ala Gly | | |
| 65 | 70 | 75 |
| Cys Leu Thr Gln Lys Ser Leu Phe Ala Ile Phe Gly Gly Thr Glu Glu | | 80 |
| | 85 | 90 |
| Asn Met Leu Leu Ser Val Met Ala Tyr Asp Arg Phe Val Ala Ile Cys | | 95 |
| | 100 | 105 |
| His Pro Leu Tyr His Ser Ala Ile Met Asn Leu Cys Phe Cys Gly Phe | | 110 |
| | 115 | 120 |
| Leu Val Leu Leu Ser Phe Phe Phe Leu Ser Leu Leu Asp Ser Gln Leu | | 125 |
| | 130 | 135 |
| Tyr Asn Leu Ile Ala Leu Leu Met Thr Cys Phe Lys Glu Val Asp Ile | | 140 |
| 145 | 150 | 155 |
| Pro Asn Phe Phe Cys Asp Leu Ser Gln Leu Pro His Leu Ala Cys Cys | | 160 |
| | 165 | 170 |
| Asp Thr Phe Ile Asn Asn Ile Ile Met Tyr Phe Pro Thr Ala Ile Phe | | 175 |
| | 180 | 185 |
| Gly Phe Leu Pro Ile Ser Gly Thr Leu Phe Ser Tyr Tyr Lys Ile Val | | 190 |
| | 195 | 200 |
| Ser Ser Ile Leu Arg Val Ser Ser Ser Gly Gly Lys Tyr Lys Ala Phe | | 205 |
| | 210 | 215 |
| Ser Thr Cys Gly Ser His Leu Ser Val Val Cys Xaa Phe Tyr Gly Arg | | 220 |
| 225 | 230 | 235 |
| Gly Val Gly Gly Tyr Leu Ser Ser Asp Val Ser Ser Ser Pro Arg Lys | | 240 |
| | 245 | 250 |
| Gly Ala Val Ala Ala Val Met Tyr Thr Val Val Thr Ser Met Leu Asn | | 255 |
| | 260 | 265 |
| Pro Phe Ile Tyr Ser Leu Gly Asn Arg Asp Ile Lys Ser Val Leu Arg | | 270 |
| | 275 | 280 |
| Arg Pro Gln | | 285 |
| 290 | | |

<210> 1720

<211> 216

<212> PRT

<213> Unknown (H38g638 protein)

<220>

<223> Synthetic construct

<400> 1720

| | | |
|---|-----|-----|
| Leu Val Asp Phe Cys Tyr Ser Ser Ala Val Thr Pro Thr Val Ile Ala | | |
| 1 | 5 | 10 |
| Gly Leu Val Ile Gly Asp Lys Val Ile Ser Tyr Asn Ala Cys Ala Ala | | 15 |
| | 20 | 25 |
| Gln Met Phe Phe Phe Ala Ala Phe Ala Thr Val Glu Asn Phe Leu Leu | | 30 |
| | 35 | 40 |
| Ala Ser Met Ala Tyr Asp Arg Tyr Asp Ala Val Cys Lys Pro Leu His | | 45 |
| | 50 | 55 |
| Tyr Thr Thr Thr Met Thr Thr Ser Val Cys Ala Cys Leu Ala Ile Ile | | 60 |
| 65 | 70 | 75 |
| Cys Tyr Val Cys Gly Phe Leu Asn Ala Ser Ile His Ile Gly Glu Thr | | 80 |
| | 85 | 90 |
| Leu Ser Leu Phe Leu Tyr Gly Pro Asn Glu Val His Cys Phe Phe Cys | | 95 |
| | 100 | 105 |
| Asp Val Pro Pro Val Met Ala Leu Ser Cys Cys Asp Arg His Val Asn | | 110 |
| | 115 | 120 |
| Glu Leu Val Leu Ile Tyr Val Ala Ser Phe Asn Ile Phe Ser Ala Ile | | 125 |
| | 130 | 135 |
| Leu Val Ile Leu Ile Ser Tyr Leu Phe Ile Phe Ile Thr Ile Leu Lys | | 140 |
| 145 | 150 | 155 |
| | | 160 |

Met His Ser Ala Ser Gly Tyr Gln Lys Ala Leu Ser Thr Cys Ala Ser
 165 170 175
 His Leu Thr Ala Val Ile Ile Phe Tyr Gly Thr Ile Ile Phe Met Tyr
 180 185 190
 Leu Gln Pro Ser Ser Gly His Ser Met Asp Thr Asp Lys Leu Ala Ser
 195 200 205
 Val Phe Tyr Thr Met Ile Ile Pro
 210 215

<210> 1721

<211> 216

<212> PRT

<213> Unknown (H38g639 protein)

<220>

<223> Synthetic construct

<400> 1721

Phe Val Asp Ile Cys Phe Ser Cys Thr Thr Val Pro Lys Met Leu Ala
 1 5 10 15
 Asn His Ile Leu Glu Thr Gln Thr Ile Ser Phe Cys Gly Cys Leu Thr
 20 25 30
 Gln Met Tyr Phe Val Phe Met Phe Val Asp Thr Asp Asn Phe Leu Leu
 35 40 45
 Ala Val Met Ala Tyr Asp His Phe Val Ala Val Cys His Pro Leu His
 50 55 60
 Tyr Thr Ala Lys Met Thr His Gln Leu Cys Ala Leu Leu Val Ala Gly
 65 70 75 80
 Leu Trp Val Val Ala Asn Leu Asn Val Leu Leu His Thr Leu Leu Met
 85 90 95
 Ala Pro Leu Ser Phe Cys Ala Asp Asn Ala Ile Thr His Phe Phe Cys
 100 105 110
 Asp Val Thr Pro Leu Leu Lys Leu Ser Cys Ser Asp Thr His Leu Asn
 115 120 125
 Glu Val Ile Ile Leu Ser Glu Gly Ala Leu Val Met Ile Thr Pro Phe
 130 135 140
 Leu Cys Asn Leu Ala Ser Tyr Met His Ile Thr Cys Thr Gly Leu Lys
 145 150 155 160
 Gly Pro Ser Thr Lys Gly Arg Trp Lys Ala Phe Ser Thr Cys Gly Ser
 165 170 175
 His Leu Ala Val Gly Leu Leu Phe Tyr Ser Thr Ile Thr Ala Val Tyr
 180 185 190
 Phe Asn Pro Leu Ser Ser His Ser Ala Ala Lys Asp Thr Met Ala Thr
 195 200 205
 Val Leu Tyr Thr Val Val Thr Pro
 210 215

<210> 1722

<211> 157

<212> PRT

<213> Unknown (H38g640 protein)

<220>

<223> Synthetic construct

<400> 1722

Ile Cys Ser Pro Leu Leu Tyr Asn Val Ile Met Ser Tyr His His Cys
 1 5 10 15
 Phe Trp Leu Thr Val Gly Val Tyr Ile Leu Gly Ile Leu Gly Ser Thr
 20 25 30
 Ile His Thr Gly Phe Met Leu Arg Leu Phe Leu Cys Lys Thr Asn Val

<210> 1723
<211> 325
<212> PRT
<213> Unknown (H38a641 protein)

<220>
<223> Synthetic construct

950

Val Leu Phe Thr Val Val Thr Pro Met Met Asn Pro Phe Ile Tyr Ser
 290 295 300
 Leu Arg Asn Lys Asp Met Lys Gly Ala Leu Arg Lys Leu Ile Asn Arg
 305 310 315 320
 Lys Ile Ser Ser Leu
 325

<210> 1724
 <211> 315
 <212> PRT
 <213> Unknown (H38g642 protein)

<220>
 <223> Synthetic construct

<221> VARIANT
 <222> (1)...(315)
 <223> Xaa = Any Amino Acid

<400> 1724
 Met Arg Pro Asn Asn Ser Ile Thr Glu Phe Val Leu Leu Gly Phe Ser
 1 5 10 15
 Gln Asp Pro Gly Met Gln Lys Glu Leu Phe Val Met Phe Leu Phe Thr
 20 25 30
 Tyr Val Val Thr Val Leu Gly Asn Gln Leu Ile Val Val Thr Ile Ile
 35 40 45
 Ala Ser Pro Ser Leu Gly Ser Pro Met Tyr Phe Phe Leu Ala Cys Leu
 50 55 60
 Ser Phe Ile Asp Ala Ala Tyr Phe Thr Val Ile Ser Pro Lys Leu Ile
 65 70 75 80
 Val Asp Leu Leu Cys Asp Lys Lys Thr Ile Ser Phe Gln Thr Phe Met
 85 90 95
 Gly Gln Leu Phe Ile Asp His Phe Phe Gly Gly Ala Glu Ala Phe Leu
 100 105 110
 Leu Val Val Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Lys Thr Leu
 115 120 125
 His Tyr Leu Thr Ile Met Thr Arg Gln Val Cys Ile Leu Ala Leu Leu
 130 135 140
 Val Ala Ala Thr Gly Gly Phe Val His Ser Val Phe Gln Ile Val Val
 145 150 155 160
 Val Tyr Ser Leu Pro Phe Cys Gly Ala Asn Val Ile Asp His Phe Ser
 165 170 175
 Cys Asp Met Tyr Pro Leu Leu Glu Leu Ala Xaa Thr Asp Thr Tyr Phe
 180 185 190
 Ile Gly Leu Thr Val Val Phe Ser Gly Gly Ala Leu Cys Met Val Ile
 195 200 205
 Phe Thr Leu Leu Ile Ile Ser Tyr Arg Val Ile Leu Asn Ser Leu Lys
 210 215 220
 Thr Tyr Thr Gln Glu Gly Arg His Lys Ala Leu Ser Thr Cys Ser Ser
 225 230 235 240
 His Ile Thr Val Ile Val Leu Phe Phe Ile Pro Cys Ile Ser Ile Tyr
 245 250 255
 Val Arg Pro Val Ser Asn Phe Ser Ile Asp Thr Phe Met Thr Val Phe
 260 265 270
 Tyr Thr Val Ile Thr Pro Lys Leu Asn Pro Leu Ile Tyr Thr Phe Arg
 275 280 285
 Asn Ser Glu Met Arg Asn Val Ile Glu Lys Leu Leu Val Lys Lys Val
 290 295 300
 Thr Ile Phe Arg Ile Thr Gly Ser Ile Leu Met
 305 310 315

<210> 1725
 <211> 314
 <212> PRT
 <213> Unknown (H38g643 protein)

<220>
 <223> Synthetic construct

<221> VARIANT
 <222> (1)...(314)
 <223> Xaa = Any Amino Acid

<400> 1725
 Met Arg Gln Asn Lys Asn Asn Thr Glu Phe Val Leu Leu Gly Phe Ser
 1 5 10 15
 Gln Asp Pro Asp Val Gln Asn Ala Leu Phe Val Met Phe Leu Leu Thr
 20 25 30
 Xaa Leu Val Thr Thr Val Gly Asn Leu Leu Ile Val Val Thr Ile Ile
 35 40 45
 Ala Ser Pro Ser Leu Gly Ser Pro Val Tyr Phe Xaa Leu Ala Cys Leu
 50 55 60
 Ser Cys Ile Asp Ala Ala Tyr Ser Thr Thr Ile Ser Pro Lys Leu Ile
 65 70 75 80
 Val Glu Leu Leu Ile Asp Lys Lys Thr Ile Ser Phe Arg Ala Cys Met
 85 90 95
 Gly Gln Leu Phe Ile Glu His Leu Phe Gly Gly Thr Glu Ile Phe Ile
 100 105 110
 Leu Met Met Met Ala Cys Asp Arg Tyr Val Asp Ile Cys Lys Pro Leu
 115 120 125
 His Tyr Leu Thr Ile Met Asn Xaa Gln Val Cys Ile Leu Leu Leu Val
 130 135 140
 Leu Ala Val Thr Gly Gly Phe Val His Ser Met Phe Gln Thr Val Val
 145 150 155 160
 Val Tyr Asn Leu Pro Phe Ser Gly Pro Asn Val Ile Asp Ile Asp His
 165 170 175
 Phe Val Cys Asp Met Tyr Pro Leu Leu Glu Leu Ala Phe Thr Asp Thr
 180 185 190
 Tyr Phe Ile Gly Leu Thr Val Val Val Asn Gly Gly Ala Met Cys Met
 195 200 205
 Val Ile Phe Thr Ile Leu Leu Ile Ser Tyr Gly Ile Ile Leu Asn Ser
 210 215 220
 Leu Lys Thr Tyr Ser Gln Glu Gly Arg Cys Lys Ala Leu Ser Thr Cys
 225 230 235 240
 Ser Pro His Ile Thr Val Val Val Leu Phe Phe Val Pro Cys Ile Phe
 245 250 255
 Ile Tyr Val Arg Pro Val Ser Thr Phe Pro Ile Asp Lys Phe Met Thr
 260 265 270
 Val Phe Tyr Thr Val Ile Thr Pro Met Leu Asn Pro Leu Ile Tyr Thr
 275 280 285
 Leu Arg Asn Ser Glu Met Arg Asn Ser Ile Glu Asn Leu Leu Cys Lys
 290 295 300
 Lys Ala Ile Cys Ser Xaa Asn Lys Ser Val
 305 310

<210> 1726
 <211> 315
 <212> PRT
 <213> Unknown (H38g644 protein)

<220>
 <223> Synthetic construct

<221> VARIANT

<222> (1)...(315)

<223> Xaa = Any Amino Acid

<400> 1726

```

Glu Xaa Met Arg Gln Asn Asn Ser Ser Thr Glu Phe Val Leu Leu Gly
 1           5           10           15
Phe Ser Gln Asp Pro Asp Val Gln Asn Ala Leu Phe Val Met Phe Leu
      20           25           30
Leu Thr Tyr Ile Val Thr Met Val Gly Asn Leu Leu Ile Val Val Thr
      35           40           45
Ile Ile Ala Ser Pro Ser Leu Gly Ser Pro Met Tyr Phe Phe Leu Ala
      50           55           60
His Leu Ser Phe Ile Asp Ala Val Tyr Ser Thr Thr Ile Ser Pro Val
      65           70           75           80
Leu Ile Val Asp Leu Leu Cys Asp Lys Lys Thr Ile Ser Phe Xaa Ala
      85           90           95
Cys Met Gly Gln Leu Phe Ile Asp His Leu Phe Gly Gly Ser Glu Val
      100           105           110
Phe Leu Leu Val Val Met Ala Cys Asp Arg Cys Val Ala Ile Cys Lys
      115           120           125
Pro Leu His Tyr Leu Thr Ile Met Asn Arg Gln Val Cys Ile Leu Leu
      130           135           140
Leu Val Leu Ala Val Thr Gly Gly Phe Val His Pro Val Phe Gln Val
      145           150           155           160
Val Val Val Tyr Ser Leu Pro Phe Cys Gly Pro Asn Val Ile Asp His
      165           170           175
Phe Phe Cys Asp Ile Tyr Pro Leu Leu Glu Leu Ala Cys Thr Asp Thr
      180           185           190
Tyr Phe Ile Gly Leu Thr Val Val Phe Asn Gly Gly Ala Met Arg Met
      195           200           205
Val Ile Leu Thr Leu Leu Leu Val Phe Tyr Gly Val Ile Leu Asn Ser
      210           215           220
Leu Lys Thr Tyr Ser Gln Glu Gly Arg His Lys Ala Leu Ser Thr Cys
      225           230           235           240
Ser Ser His Val Thr Val Val Ile Leu Phe Phe Ala Ser Cys Ile Phe
      245           250           255
Ile Tyr Val Arg Pro Val Ser Asn Phe Pro Val Asp Lys Phe Met Thr
      260           265           270
Val Phe Tyr Thr Val Ile Thr Pro Met Leu Asn Pro Phe Ile Cys Met
      275           280           285
Leu Arg Asn Ser Glu Met Arg Asn Ala Ile Glu Lys Leu Leu Cys Lys
      290           295           300
Met Asn Cys Ser Xaa Asn Lys Ser Val Pro Ser
      305           310           315

```

<210> 1727

<211> 313

<212> PRT

<213> Unknown (H38g645 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(313)

<223> Xaa = Any Amino Acid

<400> 1727

```

Met Gly Leu Ser Asn Asn Val Thr Glu Leu Phe Leu Leu Gly Leu Thr

```

```

      1           5           10           15
Gln Asp Leu Asp Val Gln Asn Ala Leu Phe Val Met Phe Leu Leu Thr
      20           25           30
Tyr Ile Val Thr Met Val Gly Asn Leu Leu Ile Val Val Thr Ile Ile
      35           40           45
Ala Thr Pro Ser Leu Gly Ser Pro Met Tyr Phe Phe Leu Ala Cys Leu
      50           55           60
Ser Phe Ile Asp Ala Val Tyr Ser Thr Thr Ile Tyr Pro Lys Leu Val
      65           70           75           80
Val Asp Xaa Leu His Asn Xaa Lys Thr Ile Leu Phe Pro Thr Cys Met
      85           90           95
Gly Gln Pro Leu Thr Asp His Leu Phe Gly Gly Val Glu Val Phe Phe
      100          105          110
Leu Leu Val Met Ala Cys Asp Arg Tyr Val Ala Ile Cys Lys Pro Leu
      115          120          125
His Tyr Phe Thr Ile Met Asn Arg Gln Val Phe Ile Leu Leu Val
      130          135          140
Val Ala Val Thr Gly Gly Phe Val Arg Ser Val Phe Gln Ile Val Val
      145          150          155          160
Val Tyr Ser Leu Pro Phe Cys Gly Pro Asn Val Ile Asp His Phe Phe
      165          170          175
Cys Asn Met Tyr Pro Leu Met Glu Met Ala Xaa Thr Asp Thr Tyr Phe
      180          185          190
Ile Gly Leu Thr Val Val Phe Lys Val Glu Ala Ile Cys Val Val Ile
      195          200          205
Phe Thr Leu Leu Leu Ile Ser Ser Gly Val Ile Leu Ile Ser Leu Lys
      210          215          220
Thr Tyr Ser Gln Glu Gly Arg His Lys Ala Leu Phe Thr Cys Ser Ser
      225          230          235          240
Arg Ile Thr Val Val Val Leu Phe Phe Val Pro Cys Ile Phe Met Tyr
      245          250          255
Val Arg Pro Val Phe Asn Phe Pro Ile Asp Lys Phe Ile Ile Val Phe
      260          265          270
Tyr Thr Val Ile Thr Pro Met Leu Asn Pro Leu Ile Tyr Met Leu Arg
      275          280          285
Asn Ser Xaa Thr Arg Asn Ala Ile Glu Asn Pro Xaa Cys Lys Lys Leu
      290          295          300
Thr Val Asp Arg Ile Arg Val Tyr Ile
305          310

```

<210> 1728

<211> 315

<212> PRT

<213> Unknown (H38g646 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(315)

<223> Xaa = Any Amino Acid

<400> 1728

```

Met Arg Pro Asn Asn Ser Ile Thr Glu Phe Val Leu Leu Gly Phe Ser
      1           5           10           15
Gln Asp Pro Asp Met Gln Asn Thr Leu Phe Val Met Phe Leu Leu Thr
      20           25           30
Tyr Ile Val Thr Val Val Gly Asn Leu Leu Val Ala Val Thr Ile Ile
      35           40           45
Val Ser Pro Ser Leu Ser Ser Pro Met Xaa Phe Phe Leu Ala Cys Leu
      50           55           60

```

Ser Leu Ile Asp Ala Val Leu Ser Thr Thr Ile Ser Pro Ile Leu Ile
 65 70 75 80
 Val Asp Leu Leu Cys Asp Lys Lys Thr Ile Ser Phe Pro Ala Cys Met
 85 90 95
 Gly Gln Leu Phe Thr Asp His Leu Phe Gly Gly Thr Glu Ile Phe Leu
 100 105 110
 Leu Val Val Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Lys Pro Leu
 115 120 125
 His Tyr Leu Thr Ile Met Asn Arg Gln Val Ser Ile Leu Leu Leu Val
 130 135 140
 Val Ala Met Thr Gly Gly Phe Leu His Ser Val Phe Gln Ile Ala Val
 145 150 155 160
 Leu Tyr Ser Leu Pro Phe Cys Gly Pro Asn Val Ile Asp His Phe Phe
 165 170 175
 Cys Asp Met Tyr Pro Leu Leu Glu Leu Ala Cys Thr Asp Thr Tyr Ser
 180 185 190
 Ile Gly Leu Thr Val Val Phe Ser Gly Gly Ala Met Cys Met Val Ile
 195 200 205
 Phe Ala Leu Leu Leu Ile Ser Tyr Gly Val Ser Leu Asn Ser Leu Lys
 210 215 220
 Thr Tyr Ser Gln Glu Gly Arg Arg Lys Ala Leu Ser Thr Cys Ser Ser
 225 230 235 240
 His Ile Thr Val Val Val Leu Phe Phe Val Pro Cys Ile Phe Met Tyr
 245 250 255
 Val Arg Pro Val Ser Asn Phe Pro Ile Asp Lys Phe Val Thr Val Phe
 260 265 270
 Tyr Thr Val Ile Thr Pro Met Leu Asn Pro Phe Leu Tyr Thr Leu Arg
 275 280 285
 Asn Ser Glu Met Ile Asn Ala Ile Lys His Leu Leu Cys Lys Lys Leu
 290 295 300
 Thr Ile Val Arg Ile Arg Val Ser Leu Leu Met
 305 310 315

<210> 1729

<211> 322

<212> PRT

<213> Unknown (H38g647 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(322)

<223> Xaa = Any Amino Acid

<400> 1729

Met Gly Ser Ser Asn Asn Val Thr Glu Phe Val Leu Leu Ala Leu Thr
 1 5 10 15
 Gln Ala Pro Asp Val Gln Lys Val Leu Phe Val Met Phe Leu Phe Thr
 20 25 30
 Tyr Ile Val Thr Met Val Gly Asn Leu Leu Thr Val Val Thr Ile Phe
 35 40 45
 Ala Ser Pro Ser Leu Gly Ser Pro Val Xaa Leu Phe Leu Ala Cys Leu
 50 55 60
 Ser Leu Met Asp Ala Val Tyr Ser Thr Ser Phe Ser Pro Lys Leu Met
 65 70 75 80
 Ile Asp Leu Leu Cys Asp Lys Lys Thr Val Ser Phe Pro Ala Cys Met
 85 90 95
 Gly Gln Leu Phe Ala Asp His Leu Phe Gly Gly Val Glu Val Phe Leu
 100 105 110
 Phe Val Gly Met Ala Tyr Asp His Tyr Val Ala Ile Ser Lys Pro Leu

| | | |
|---|---------------------|---------------------|
| 115 | 120 | 125 |
| His Tyr Leu Ile Ile Val | Asn Arg Leu Val Cys | Ile Leu Leu Leu Val |
| 130 | 135 | 140 |
| Val Ala Val Thr Gly Gly Phe Xaa His Ser Met Phe Leu Phe Phe Xaa | | |
| 145 | 150 | 155 |
| Ile Tyr Leu Phe Phe Tyr Val Asn Ser Met Phe Gln Ile Val Val Val | | |
| 165 | 170 | 175 |
| Tyr Ser Leu Pro Phe Cys Gly Ser Asn Val Ile Asp His Ile Val Cys | | |
| 180 | 185 | 190 |
| Asp Met Tyr Pro Leu Leu Glu Leu Ala Cys Ala Asp Thr Tyr Phe Ile | | |
| 195 | 200 | 205 |
| Gly Leu Thr Val Ile Ala Asn Gly Gly Ala Ile Cys Met Val Ile Phe | | |
| 210 | 215 | 220 |
| Cys Leu Leu Leu Thr Ser Tyr Gly Val Ile Leu Asn Phe Leu Lys Thr | | |
| 225 | 230 | 235 |
| Tyr Ser Gln Glu Gly Arg His Arg Thr Leu Ser Thr Cys Ser Ser His | | |
| 245 | 250 | 255 |
| Ile Thr Val Val Val Leu Phe Phe Val Pro Cys Ile Phe Met Tyr Val | | |
| 260 | 265 | 270 |
| Arg Pro Val Ser Asn Phe Pro Ile Asp Lys Phe Ile Thr Glu Phe Tyr | | |
| 275 | 280 | 285 |
| Thr Val Ile Thr Pro Lys Leu Asn Pro Leu Ile Gln Pro Leu Arg Asn | | |
| 290 | 295 | 300 |
| Xaa Glu Met Arg Ile Thr Met Lys Lys Leu Trp Cys Xaa Thr Xaa Thr | | |
| 305 | 310 | 315 |
| Ile Val | | 320 |

<210> 1730

<211> 310

<212> PRT

<213> Unknown (H38g648 protein)

<220>

<223> Synthetic construct

<400> 1730

| | |
|---|-----|
| Met Lys Asn Lys Asn Asn Val Thr Glu Phe Ile Leu Leu Gly Leu Thr | |
| 1 | 5 |
| Gln Asn Pro Glu Gly Gln Lys Val Leu Phe Val Thr Phe Leu Leu Ile | |
| 20 | 25 |
| Tyr Met Val Thr Ile Met Gly Asn Leu Leu Ile Ile Val Thr Ile Met | |
| 35 | 40 |
| Ala Ser Gln Ser Leu Gly Ser Pro Met Tyr Phe Phe Leu Ala Ser Leu | |
| 50 | 55 |
| Ser Phe Ile Asp Thr Val Tyr Ser Thr Ala Phe Ala Pro Lys Met Ile | |
| 65 | 70 |
| Val Asp Leu Leu Ser Glu Lys Lys Thr Ile Ser Phe Gln Gly Cys Met | |
| 85 | 90 |
| Ala Gln Leu Phe Met Asp His Leu Phe Ala Gly Ala Glu Val Ile Leu | |
| 100 | 105 |
| Leu Val Val Met Ala Tyr Asp Arg Tyr Met Ala Ile Cys Lys Pro Leu | |
| 115 | 120 |
| His Glu Leu Ile Thr Met Asn Arg Arg Val Cys Val Leu Met Leu Leu | |
| 130 | 135 |
| Ala Ala Trp Ile Gly Gly Phe Leu His Ser Leu Val Gln Phe Leu Phe | |
| 145 | 150 |
| Ile Tyr Gln Leu Pro Phe Cys Gly Pro Asn Val Ile Asp Asn Phe Leu | |
| 165 | 170 |
| Cys Asp Leu Tyr Pro Leu Leu Lys Leu Ala Cys Thr Asn Thr Tyr Val | |
| 180 | 185 |
| | 190 |

Thr Gly Leu Ser Met Ile Ala Asn Gly Gly Ala Ile Cys Ala Val Thr
 195 200 205
 Phe Phe Thr Ile Leu Leu Ser Tyr Gly Val Ile Leu His Ser Leu Lys
 210 215 220
 Thr Gln Ser Leu Glu Gly Lys Arg Lys Ala Phe Tyr Thr Cys Ala Ser
 225 230 235 240
 His Val Thr Val Val Ile Leu Phe Phe Val Pro Cys Ile Phe Leu Tyr
 245 250 255
 Ala Arg Pro Asn Ser Thr Phe Pro Ile Asp Lys Ser Met Thr Val Val
 260 265 270
 Leu Thr Phe Ile Thr Pro Met Leu Asn Pro Leu Ile Tyr Thr Leu Lys
 275 280 285
 Asn Ala Glu Met Lys Ser Ala Met Arg Lys Leu Trp Ser Lys Lys Val
 290 295 300
 Ser Leu Ala Gly Lys Trp
 305 310

<210> 1731

<211> 275

<212> PRT

<213> Unknown (H38g649 protein)

<220>

<223> Synthetic construct

<400> 1731

Met Val Gly Asn Leu Leu Ile Trp Val Thr Thr Ile Gly Ser Pro Ser
 1 5 10 15
 Leu Gly Ser Leu Met Tyr Phe Phe Leu Ala Tyr Leu Ser Leu Met Asp
 20 25 30
 Ala Ile Tyr Ser Thr Ala Met Ser Pro Lys Leu Met Ile Asp Leu Leu
 35 40 45
 Cys Asp Lys Ile Ala Ile Ser Leu Ser Ala Cys Met Gly Gln Leu Phe
 50 55 60
 Ile Glu His Leu Leu Gly Gly Ala Glu Val Phe Leu Leu Val Val Met
 65 70 75 80
 Ala Tyr Asp Arg Tyr Val Ala Ile Ser Lys Pro Leu His Tyr Leu Asn
 85 90 95
 Ile Met Asn Arg Leu Val Cys Ile Leu Leu Leu Val Val Ala Met Ile
 100 105 110
 Gly Gly Phe Val His Ser Val Val Gln Ile Val Phe Leu Tyr Ser Leu
 115 120 125
 Pro Ile Cys Gly Pro Asn Val Ile Asp His Ser Val Cys Asp Met Tyr
 130 135 140
 Pro Leu Leu Glu Leu Leu Cys Leu Asp Thr Tyr Phe Ile Gly Leu Thr
 145 150 155 160
 Val Val Ala Asn Gly Gly Ile Ile Cys Met Val Ile Phe Thr Phe Leu
 165 170 175
 Leu Ile Ser Cys Gly Val Ile Leu Asn Phe Leu Lys Thr Tyr Ser Gln
 180 185 190
 Glu Glu Arg His Lys Ala Leu Pro Thr Cys Ile Ser His Ile Ile Val
 195 200 205
 Val Ala Leu Val Phe Val Pro Cys Ile Phe Met Tyr Val Arg Pro Val
 210 215 220
 Ser Asn Phe Pro Phe Asp Lys Leu Met Thr Val Phe Tyr Ser Ile Ile
 225 230 235 240
 Thr Leu Met Leu Asn Pro Leu Ile Tyr Ser Leu Arg Gln Ser Glu Met
 245 250 255
 Lys Asn Ala Met Lys Asn Leu Trp Cys Glu Lys Leu Ser Ile Val Arg
 260 265 270
 Lys Arg Val

275

<210> 1732
 <211> 218
 <212> PRT
 <213> Unknown (H38g650 protein)

<220>
 <223> Synthetic construct

<221> VARIANT
 <222> (1)...(218)
 <223> Xaa = Any Amino Acid

<400> 1732
 Leu Pro Asp Ile Gly Phe Thr Ser Thr Thr Val Pro Lys Met Ile Val
 1 5 10 15
 Asp Ile Gln Ser His Ser Arg Leu Ile Ser Xaa Ala Gly Cys Leu Thr
 20 25 30
 Pro Met Ser Leu Phe Ala Ile Phe Gly Gly Met Glu Glu Asn Met Leu
 35 40 45
 Leu Ser Val Ile Ala Tyr Asp Pro Phe Val Ala Ile Cys His Pro Leu
 50 55 60
 Tyr His Ser Ala Ile Met Asn Pro Cys Phe Cys Gly Phe Leu Val Leu
 65 70 75 80
 Leu Ser Phe Phe Ser Gln Ser Leu Leu Asp Ala Gln Val His Asn Leu
 85 90 95
 Ile Ala Leu Gln Met Thr Cys Phe Lys Asp Val Glu Ile Pro Asn Phe
 100 105 110
 Phe Trp Glu Pro Ser Gln Leu Pro His Leu Ala Cys Cys Asp Thr Phe
 115 120 125
 Thr Asn Asn Ile Ile Met Tyr Ser Pro Ala Ala Ile Phe Gly Phe Leu
 130 135 140
 Pro Ile Ser Gly Thr Leu Phe Ser Tyr Tyr Lys Ile Val Ser Ser Ile
 145 150 155 160
 Leu Arg Val Ser Ser Ser Gly Gly Lys Tyr Lys Ala Leu Ser Thr Cys
 165 170 175
 Gly Ser Arg Leu Ser Val Val Cys Xaa Val Tyr Gly Thr Gly Val Gly
 180 185 190
 Glu Tyr Leu Gly Ser Asp Val Ser Ser Ser Pro Arg Lys Gly Ala Val
 195 200 205
 Ala Ser Val Met Tyr Thr Val Val Thr Pro
 210 215

<210> 1733
 <211> 216
 <212> PRT
 <213> Unknown (H38g651 protein)

<220>
 <223> Synthetic construct

<400> 1733
 Ser Met Ala Leu Met Leu Ile Cys Thr Thr Gly Pro Lys Met Ala Phe
 1 5 10 15
 Asn Tyr Leu Ser Gly Ser Lys Ser His Phe Tyr Gly Cys Cys Ala Thr
 20 25 30
 Gln Ile Phe Phe Tyr Thr Ser Leu Leu Gly Ser Glu Cys Phe Leu Leu
 35 40 45
 Ala Val Met Ala Tyr Asp Arg Tyr Thr Ala Ile Cys His Pro Leu Arg
 50 55 60

```

Tyr Thr Asn Leu Met Ser Pro Lys Ile Cys Gly Leu Met Thr Ala Phe
65          70          75          80
Ser Trp Ile Leu Gly Ser Thr Asp Gly Ile Ile Asp Val Val Ala Thr
          85          90          95
Phe Ser Phe Ser Tyr Cys Gly Ser Arg Glu Ile Ala His Phe Phe Cys
          100         105         110
Asp Phe Pro Ser Leu Leu Ile Leu Ser Cys Ser Asp Thr Ser Ile Phe
          115         120         125
Glu Lys Ile Leu Phe Ile Cys Cys Ile Val Met Ile Val Phe Pro Val
          130         135         140
Ala Ile Ile Ile Ala Ser Tyr Ala Arg Val Ile Leu Ala Val Ile His
145          150         155         160
Met Gly Ser Gly Glu Gly Arg Arg Lys Ala Phe Thr Thr Cys Ser Ser
          165         170         175
His Leu Leu Val Val Gly Met Tyr Tyr Gly Ala Ala Leu Phe Met Tyr
          180         185         190
Ile Arg Pro Thr Ser Asp Arg Ser Pro Thr Gln Asp Lys Met Val Ser
          195         200         205
Val Phe Tyr Thr Ile Leu Thr Pro
          210         215

```

<210> 1734

<211> 212

<212> PRT

<213> Unknown (H38g652 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(212)

<223> Xaa = Any Amino Acid

<400> 1734

```

Phe Val Asp Ile Ala Cys Ser Ser Ala Thr Ala Pro Lys Met Ile Glu
1          5          10          15
Asp Phe Val Ser Glu Lys Lys Thr Ile Ser Tyr Trp Gly Cys Ile Thr
          20         25         30
Gln Met Phe Thr Phe His Phe Phe Gly Cys Ala Glu Ile Phe Val Leu
          35         40         45
Thr Val Met Ala Phe Asp Arg Tyr Ala Ala Ile Cys Gln Pro Leu Arg
          50         55         60
Tyr Thr Val Ile Met Ser Ala Asn Ala Tyr Thr Val Leu Ala Ser Leu
65          70          75          80
Ser Trp Leu Gly Ala Leu Gly His Ser Phe Val Gln Thr Leu Leu Thr
          85         90         95
Phe Gln Leu Pro Phe Cys Asn Ala Gln Val Ile Glu His Tyr Phe Cys
          100        105        110
Asp Val His Pro Val Leu Lys Leu Ala Cys Ala Asp Thr Thr Leu Val
          115        120        125
Asn Met Leu Val Val Ala Asn Ser Gly Leu Ile Ser Leu Gly Cys Phe
          130        135        140
Leu Ile Leu Leu Ala Ser Tyr Thr Val Ile Leu Phe Ser Leu Gln Lys
145          150        155        160
Gln Ser Ala Glu Ser Xaa His Lys Val Leu Ser Thr Cys Gly Ser His
          165        170        175
Leu Thr Ile Val Thr Phe Phe Phe Val Pro Cys Ile Phe Ile Tyr Arg
          180        185        190
Pro Ser Thr Thr Phe Pro Leu Asp Lys Ala Val Ser Val Phe Tyr Thr
          195        200        205
Thr Ile Thr Pro

```

210

<210> 1735

<211> 223

<212> PRT

<213> Unknown (H38g653 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(223)

<223> Xaa = Any Amino Acid

<400> 1735

```

Leu Pro Asp Ile Gly Phe Thr Ser Thr Thr Val Pro Lys Met Ile Val
 1           5           10           15
Asp Ile Gln Ser His Ser Arg Val Ile Ser Tyr Ala Gly Cys Leu Thr
           20           25           30
Gln Met Ser Leu Phe Ala Ile Phe Xaa Gly Arg Glu Glu Ser Met Leu
           35           40           45
Leu Ser Val Met Ala Tyr Asp Gln Phe Val Ala Ile Cys His Pro Pro
           50           55           60
Tyr Arg Ser Ala Ile Leu Asn Pro Cys Phe Cys Gly Phe Leu Val Cys
65           70           75           80
Cys Pro Cys Phe Phe Phe Phe Phe Phe Phe Leu Ser Leu Leu Asp Ser
           85           90           95
Gln Leu His Asn Leu Ile Ala Leu Gln Met Thr Cys Phe Lys Asp Val
           100          105          110
Glu Ile Pro Asn Phe Phe Trp Glu Pro Ser Gln Leu Pro His Leu Ala
           115          120          125
Cys Cys Asp Ile Phe Thr Arg Asn Ile Asn Leu Tyr Phe Pro Ala Ala
           130          135          140
Ile Phe Gly Phe Leu Pro Ile Ser Gly Thr Leu Phe Ser Tyr Ser Lys
145          150          155          160
Ile Val Ser Ser Ile Leu Arg Val Ser Ser Gly Gly Arg Tyr Lys
           165          170          175
Ala Leu Ser Thr Cys Gly Ser His Val Ser Val Val Cys Xaa Val Tyr
           180          185          190
Gly Thr Gly Val Gly Gly Tyr Leu Ser Ser Asp Val Ser Phe Ser Pro
           195          200          205
Arg Lys Gly Ala Val Ala Ser Val Met Tyr Ala Val Val Thr Pro
           210          215          220

```

<210> 1736

<211> 216

<212> PRT

<213> Unknown (H38g654 protein)

<220>

<223> Synthetic construct

<400> 1736

```

Leu Leu Asp Leu Cys Tyr Thr Thr Cys Thr Val Pro Gln Met Leu Val
 1           5           10           15
Asn Leu Cys Ser Ile Arg Lys Val Ile Ser Tyr Arg Gly Cys Val Ala
           20           25           30
Gln Leu Phe Ile Phe Leu Ala Leu Gly Ala Thr Glu Tyr Leu Leu Leu
           35           40           45
Ala Val Met Ser Phe Asp Arg Phe Val Ala Ile Cys Arg Pro Leu His
           50           55           60

```

Tyr Ser Val Ile Met His Gln Arg Leu Cys Leu Gln Leu Ala Ala Ala
 65 70 75 80
 Ser Arg Val Thr Gly Phe Ser Asn Ser Val Trp Leu Ser Thr Leu Thr
 85 90 95
 Leu Gln Leu Pro Leu Cys Asp Pro Tyr Val Ile Asp His Phe Leu Cys
 100 105 110
 Glu Val Pro Ala Leu Leu Lys Leu Ser Cys Val Glu Thr Thr Ala Asn
 115 120 125
 Glu Ala Glu Leu Phe Leu Val Ser Glu Leu Phe His Leu Ile Pro Leu
 130 135 140
 Thr Leu Ile Leu Ile Ser Tyr Ala Phe Ile Val Arg Ala Val Leu Arg
 145 150 155 160
 Ile Gln Ser Ala Glu Gly Arg Gln Lys Ala Phe Gly Thr Cys Gly Ser
 165 170 175
 His Leu Ile Val Ser Leu Phe Asn Ser Thr Ala Val Ser Val Tyr
 180 185 190
 Leu Gln Pro Pro Ser Pro Ser Ser Lys Asp Gln Gly Lys Met Val Ser
 195 200 205
 Leu Phe Tyr Gly Ile Ile Ala Pro
 210 215

<210> 1737

<211> 218

<212> PRT

<213> Unknown (H38g655 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(218)

<223> Xaa = Any Amino Acid

<400> 1737

Leu Pro Asp Ile Gly Phe Thr Ser Thr Ile Val Pro Lys Met Ile Val
 1 5 10 15
 Asp Ile Gln Ser His Ser Arg Val Ile Ser Tyr Ala Gly Arg Leu Thr
 20 25 30
 Gln Met Ser Leu Phe Ala Ile Phe Gly Gly Met Glu Asp Ser Met Leu
 35 40 45
 Leu Ser Val Met Ala Tyr Asp Arg Phe Val Ala Ile Cys His Pro Leu
 50 55 60
 Tyr His Ser Ala Ile Met Asn Pro Cys Phe Cys Gly Phe Leu Leu Leu
 65 70 75 80
 Leu Ser Phe Phe Phe Leu Ser Leu Leu Asp Ala Gln Leu His Asn Leu
 85 90 95
 Ile Ala Leu Gln Met Thr Cys Phe Lys Asp Val Glu Ile Pro Asn Phe
 100 105 110
 Phe Cys Asp Pro Ser Gln Leu Pro His Leu Ala Cys Cys Asp Thr Phe
 115 120 125
 Thr Asn Asn Ile Ile Met Tyr Phe Pro Ala Ala Ile Phe Gly Phe Leu
 130 135 140
 Pro Ile Ser Gly Thr Leu Phe Ser Tyr Asp Lys Ile Val Ser Ser Ile
 145 150 155 160
 Leu Arg Val Ser Ser Gly Gly Lys Tyr Lys Ala Phe Ser Thr Tyr
 165 170 175
 Gly Ser His Leu Ser Asp Val Ser Xaa Phe Tyr Gly Thr Gly Val Gly
 180 185 190
 Gly Tyr Leu Ser Ser Asp Val Ser Ser Ser Pro Arg Lys Thr Ala Val
 195 200 205
 Ala Ser Val Met Tyr Thr Val Val Thr Pro

210

215

<210> 1738
 <211> 221
 <212> PRT
 <213> Unknown (H38g656 protein)

<220>
 <223> Synthetic construct

<221> VARIANT
 <222> (1)...(221)
 <223> Xaa = Any Amino Acid

<400> 1738
 Phe Pro Asp Ile Gly Phe Thr Ser Thr Thr Val Pro Lys Met Ile Val
 1 5 10 15
 Asp Ile Gln Ser His Ser Arg Val Ile Ser Tyr Ala Gly Cys Pro Thr
 20 25 30
 Gln Met Ser Leu Phe Ala Ile Phe Gly Asp Thr Glu Glu Asn Met Phe
 35 40 45
 Leu Ser Val Val Ala Tyr Asp Arg Phe Val Ala Ile Cys His Pro Leu
 50 55 60
 Tyr Arg Ser Ala Ile Leu Asn Pro Cys Phe Cys Gly Phe Leu Asp Ser
 65 70 75 80
 Leu Ser Leu Val Phe Phe Phe Phe Phe Ser Leu Leu Asp Ser Gln Leu
 85 90 95
 His Asn Leu Ile Ala Leu Gln Met Thr Cys Phe Lys Asp Val Glu Ile
 100 105 110
 Pro Asn Phe Phe Trp Glu Pro Ser Gln Leu Pro His Leu Ala Cys Cys
 115 120 125
 Asp Ile Phe Thr Arg Asn Ile Asn Leu Tyr Phe Pro Ala Ala Ile Phe
 130 135 140
 Gly Phe Leu Pro Ile Ser Gly Thr Leu Phe Ser Cys Tyr Lys Ile Val
 145 150 155 160
 Ser Phe Ile Leu Arg Val Ser Ser Ser Gly Lys Tyr Lys Ala Phe
 165 170 175
 Ser Ala Cys Gly Ser His Leu Ser Val Val Tyr Xaa Phe Tyr Gly Thr
 180 185 190
 Gly Phe Gly Gly Tyr Leu Ser Ser Asp Val Ser Ser Ser Pro Arg Lys
 195 200 205
 Thr Ala Val Ala Ser Val Met Tyr Ala Val Val Thr Pro
 210 215 220

<210> 1739
 <211> 216
 <212> PRT
 <213> Unknown (H38g657 protein)

<220>
 <223> Synthetic construct

<400> 1739
 Val Leu Asp Val Gly Cys Ile Thr Val Thr Val Pro Ala Met Leu Gly
 1 5 10 15
 Arg Leu Leu Ser His Lys Ser Thr Ile Ser Tyr Asp Ala Cys Leu Ser
 20 25 30
 Gln Leu Phe Phe Phe His Leu Leu Ala Gly Met Asp Cys Phe Leu Leu
 35 40 45
 Thr Ala Met Ala Tyr Asp Arg Leu Leu Ala Ile Cys Gln Pro Leu Thr
 50 55 60

Tyr Ser Thr Arg Met Ser Gln Thr Val Gln Arg Met Leu Val Ala Ala
 65 70 75 80
 Ser Trp Ala Cys Ala Phe Thr Asn Ala Leu Thr His Thr Val Ala Met
 85 90 95
 Ser Thr Leu Asn Phe Cys Gly Pro Asn Glu Val Asn His Phe Tyr Cys
 100 105 110
 Asp Leu Pro Gln Leu Phe Gln Leu Ser Cys Ser Ser Thr Gln Leu Asn
 115 120 125
 Glu Leu Leu Leu Phe Val Ala Ala Phe Met Ala Val Ala Pro Leu
 130 135 140
 Val Phe Ile Ser Val Pro Tyr Ala His Val Val Ala Ala Val Leu Gln
 145 150 155 160
 Ile Arg Ser Ala Glu Gly Arg Lys Lys Ala Phe Ser Thr Cys Gly Ser
 165 170 175
 His Leu Thr Val Val Gly Ile Phe Tyr Gly Thr Gly Val Phe Ser Tyr
 180 185 190
 Met Arg Leu Gly Ser Val Glu Ser Ser Asp Lys Asp Lys Gly Val Gly
 195 200 205
 Val Phe Met Thr Val Ile Asn Pro
 210 215

<210> 1740

<211> 212

<212> PRT

<213> Unknown (H38g658 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(212)

<223> Xaa = Any Amino Acid

<400> 1740

Phe Val Asp Ile Ala Cys Ser Ser Ala Thr Ala Pro Lys Met Ile Glu
 1 5 10 15
 Asp Phe Val Ser Glu Lys Lys Thr Ile Ser Tyr Trp Gly Cys Ile Thr
 20 25 30
 Gln Met Phe Thr Phe His Phe Phe Gly Cys Ala Asp Ile Phe Val Leu
 35 40 45
 Thr Val Met Ala Phe Asp Arg Cys Ala Ala Ile Cys Gln Pro Leu Arg
 50 55 60
 Tyr Thr Val Ile Met Ser Ala Asn Ala Tyr Thr Val Leu Ala Ser Leu
 65 70 75 80
 Ser Trp Leu Gly Ala Leu Gly His Ser Phe Val Gln Thr Leu Leu Thr
 85 90 95
 Phe Gln Leu Pro Phe Cys Asn Ala Gln Val Ile Asp His Tyr Phe Cys
 100 105 110
 Asp Val His Pro Val Leu Lys Leu Ala Cys Ala Asp Thr Thr Leu Val
 115 120 125
 Asn Met Leu Val Val Ala Asn Ser Gly Leu Ile Ser Leu Gly Cys Phe
 130 135 140
 Leu Ile Leu Leu Ala Ser Tyr Thr Val Ile Leu Phe Ser Leu Gln Lys
 145 150 155 160
 Gln Ser Ala Glu Ser Xaa His Lys Val Leu Ser Thr Cys Gly Ser His
 165 170 175
 Leu Thr Ile Val Thr Phe Phe Phe Val Pro Cys Ile Phe Ile Tyr Arg
 180 185 190
 Pro Ser Thr Thr Phe Pro Leu Asp Lys Ala Val Ser Val Phe Tyr Thr
 195 200 205
 Thr Ile Thr Pro

210

<210> 1741

<211> 216

<212> PRT

<213> Unknown (H38g659 protein)

<220>

<223> Synthetic construct

<400> 1741

```

Phe Ser Asp Leu Cys Phe Ser Ser Val Thr Ile Pro Lys Leu Leu Gln
 1          5          10          15
Asn Met Gln Asn Gln Asp Pro Ser Ile Pro Tyr Ala Asp Cys Leu Thr
      20          25          30
Gln Met Tyr Phe Phe Leu Leu Phe Gly Asp Leu Glu Ser Phe Leu Leu
      35          40          45
Val Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Phe Pro Leu His
      50          55          60
Tyr Thr Ala Ile Met Ser Pro Met Leu Cys Leu Ala Leu Val Ala Leu
      65          70          75          80
Ser Trp Val Leu Thr Thr Phe His Ala Met Leu His Thr Leu Leu Met
      85          90          95
Ala Arg Leu Cys Phe Cys Ala Asp Asn Val Ile Pro His Phe Phe Cys
      100          105          110
Asp Met Ser Ala Leu Leu Lys Leu Ala Phe Ser Asp Thr Arg Val Asn
      115          120          125
Glu Trp Val Ile Phe Ile Met Gly Gly Leu Ile Leu Val Ile Pro Phe
      130          135          140
Leu Leu Ile Leu Gly Ser Tyr Ala Arg Val Val Ser Ser Ile Leu Lys
      145          150          155          160
Val Pro Ser Ser Lys Gly Ile Cys Lys Ala Phe Ser Thr Cys Gly Ser
      165          170          175
His Leu Ser Val Val Ser Leu Phe Tyr Gly Thr Val Ile Gly Leu Tyr
      180          185          190
Leu Cys Ser Ser Ala Asn Ser Ser Thr Leu Lys Asp Thr Val Met Ala
      195          200          205
Met Met Tyr Thr Val Val Thr Pro
      210          215

```

<210> 1742

<211> 146

<212> PRT

<213> Unknown (H38g660 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(146)

<223> Xaa = Any Amino Acid

<400> 1742

```

Thr Leu Gln Asn Ile Thr Ser Thr Ser Ile Ile Phe Leu Leu Thr Gly
 1          5          10          15
Val Pro Gly Leu Glu Ala Phe His Thr Trp Ile Ser Ile Pro Phe Cys
      20          25          30
Phe Leu Ser Val Thr Ala Leu Leu Gly Asn Ser Leu Ile Leu Phe Ala
      35          40          45
Thr Ile Thr Gln Pro Ser Leu His Glu Pro Met Tyr Tyr Phe Leu Ser
      50          55          60

```


Met Leu Ser Ala Thr Asp Leu Gly Leu Ser Ile Ser Thr Leu Val Thr
 65 70 75 80
 Met Leu Ser Ile Phe Trp Phe Asn Val Arg Glu Ile Ser Phe Asn Ala
 85 90 95
 Cys Leu Ser His Met Phe Phe Ile Lys Phe Phe Thr Val Met Glu Ser
 100 105 110
 Ser Val Leu Leu Ala Met Ala Phe Asp Arg Leu Val Pro Ser Leu Ser
 115 120 125
 Pro Xaa Tyr Ala Met Ile Xaa Leu Thr Gln Ile Ala Lys Met Ser Ala
 130 135 140
 Val Tyr
 145

<210> 1743

<211> 334

<212> PRT

<213> Unknown (H38g661 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(334)

<223> Xaa = Any Amino Acid

<400> 1743

Ala Gly Val Glu Asn Asp Asn Thr Ser Ser Phe Glu Gly Phe Ile Leu
 1 5 10 15
 Val Gly Phe Ser Asp Arg Pro His Leu Glu Leu Ile Val Phe Val Val
 20 25 30
 Val Leu Ile Phe Tyr Leu Leu Thr Leu Leu Gly Asn Met Thr Ile Val
 35 40 45
 Leu Leu Ser Ala Leu Asp Ser Arg Leu His Thr Pro Met Tyr Phe Phe
 50 55 60
 Leu Ala Asn Leu Ser Phe Leu Asp Met Cys Phe Thr Thr Gly Ser Ile
 65 70 75 80
 Pro Gln Met Leu Tyr Asn Leu Trp Gly Pro Asp Lys Thr Ile Ser Tyr
 85 90 95
 Val Gly Cys Ala Ile Gln Leu Tyr Phe Val Leu Ala Leu Gly Gly Val
 100 105 110
 Glu Cys Val Leu Leu Ala Val Met Ala Tyr Asp Arg Tyr Ala Ala Val
 115 120 125
 Cys Lys Pro Leu His Tyr Thr Ile Ile Met His Pro Arg Leu Cys Gly
 130 135 140
 Gln Leu Ala Ser Val Ala Trp Leu Ser Gly Phe Gly Asn Ser Leu Ile
 145 150 155 160
 Met Ala Pro Gln Thr Leu Met Leu Pro Arg Cys Gly His Arg Arg Val
 165 170 175
 Asp His Phe Leu Cys Glu Met Pro Ala Leu Ile Gly Met Ala Cys Val
 180 185 190
 Asp Thr Met Met Leu Glu Ala Leu Ala Phe Ala Leu Ala Ile Phe Ile
 195 200 205
 Ile Leu Ala Pro Leu Ile Leu Ile Leu Ile Ser Tyr Gly Tyr Val Gly
 210 215 220
 Gly Thr Val Leu Arg Ile Lys Ser Ala Ala Gly Arg Lys Lys Ala Phe
 225 230 235 240
 Asn Thr Cys Ser Ser His Leu Ile Val Val Ser Leu Phe Tyr Gly Thr
 245 250 255
 Ile Ile Tyr Met Tyr Leu Gln Pro Ala Asn Thr Tyr Ser Gln Asp Gln
 260 265 270
 Gly Lys Phe Leu Thr Leu Phe Tyr Thr Ile Val Thr Pro Ser Val Asn

| | | |
|---|-----|-----|
| 275 | 280 | 285 |
| Pro Leu Ile Tyr Thr Leu Arg Asn Lys Asp Val Lys Glu Ala Met Lys | | |
| 290 | 295 | 300 |
| Lys Val Leu Gly Lys Gly Ser Ala Glu Ile Xaa Xaa Gly Val Ile Lys | | |
| 305 | 310 | 315 |
| Leu Trp Asp Cys Ile Leu Thr His Leu Leu Tyr Met Leu Leu | | |
| 325 | 330 | |

<210> 1744

<211> 275

<212> PRT

<213> Unknown (H38g662 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(275)

<223> Xaa = Any Amino Acid

<400> 1744

| | | |
|---|-----|-----|
| Leu Tyr Leu Ile Lys His Asp His Ser Leu His Glu Pro Met Tyr Tyr | | |
| 1 | 5 | 10 |
| Phe Leu Thr Met Leu Ala Gly Thr Asp Leu Met Val Thr Leu Thr Thr | | |
| 20 | 25 | 30 |
| Met Pro Thr Val Met Gly Ile Leu Trp Val Asn His Arg Glu Ile Ser | | |
| 35 | 40 | 45 |
| Ser Val Gly Cys Phe Leu Gln Ala Tyr Phe Ile His Ser Leu Ser Val | | |
| 50 | 55 | 60 |
| Val Glu Ser Gly Ser Leu Leu Ala Met Ala Tyr Asp Arg Leu Ile Ala | | |
| 65 | 70 | 75 |
| Ile Arg Asn Pro Leu Arg Tyr Ala Ser Ile Ser Thr Asn Thr Arg Val | | |
| 85 | 90 | 95 |
| Ile Ala Leu Gly Val Gly Leu Phe Leu Arg Gly Leu Val Ser Ile Leu | | |
| 100 | 105 | 110 |
| Pro Val Ile Leu Arg Leu Phe Pro Phe Pro Tyr Gly Lys Ser His Val | | |
| 115 | 120 | 125 |
| Ile Thr Arg Ala Phe Cys Leu His Gln Glu Ile Met Arg Leu Ala Cys | | |
| 130 | 135 | 140 |
| Ala Asp Ile Thr Ser Asn Lys Leu Tyr Pro Val Ile Leu Ile Ser Leu | | |
| 145 | 150 | 155 |
| Thr Ile Ser Leu Asn Ser Leu Ile Thr Pro Ser Ser Tyr Ile Leu Ile | | |
| 165 | 170 | 175 |
| Leu Asn Thr Val Ile Gly Ile Ala Ser Gly Glu Glu Lys Thr Lys Ala | | |
| 180 | 185 | 190 |
| Leu Asn Thr Cys Ile Ser His Ile Ser Cys Val Leu Ile Ser Tyr Val | | |
| 195 | 200 | 205 |
| Thr Val Met Gly Leu Thr Phe Ile Tyr Lys Phe Gly Lys Asn Val Pro | | |
| 210 | 215 | 220 |
| Lys Val Val His Ile Ile Ser Tyr Ile Tyr Phe Leu Phe Pro Pro | | |
| 225 | 230 | 235 |
| Leu Met Asn Pro Val Ile Tyr Ser Ile Lys Thr Lys Gln Ile Gln Tyr | | |
| 245 | 250 | 255 |
| Gly Ile Ile Arg Leu Leu Ser Lys His Arg Phe Ser Arg Xaa Thr Arg | | |
| 260 | 265 | 270 |
| Ile Trp Lys | | |
| 275 | | |

<210> 1745

<211> 219

<212> PRT

<213> Unknown (H38g663 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(219)

<223> Xaa = Any Amino Acid

<400> 1745

```

Leu Ala Asp Ile Gly Phe Thr Ser Asn Thr Val Pro Lys Met Ile Val
 1           5           10           15
Asp Ile Gln Ser His Ser Arg Val Ile Ser Tyr Ala Gly Cys Leu Thr
          20          25          30
Gln Met Ser Leu Phe Ala Val Phe Gly Gly Met Glu Glu Asn Met Leu
          35          40          45
Leu Ser Val Arg Ala Tyr Asp Arg Phe Val Ala Ile Cys His Pro Leu
          50          55          60
Tyr Cys Ser Ala Ile Phe Asn Pro Cys Phe Cys Gly Phe Leu Asp Leu
          65          70          75          80
Leu Ser Phe Phe Phe Phe Phe Leu Ser Leu Ser Asp Ser Gln Leu His
          85          90          95
Asn Leu Ile Ala Leu Gln Met Thr Cys Phe Lys Asp Val Glu Ile Pro
          100         105         110
Asn Phe Phe Trp Glu Pro Ser Gln Leu Ser His Leu Ala Cys Cys Asp
          115         120         125
Thr Phe Thr Arg Asn Ile Met Tyr Phe Pro Ala Ala Ile Phe Gly Phe
          130         135         140
Leu Pro Ile Ser Gly Thr Leu Phe Ser Tyr Asp Lys Ile Val Phe Ser
          145         150         155         160
Ile Leu Arg Val Ser Ser Ser Gly Gly Lys His Lys Ala Phe Ser Thr
          165         170         175
Arg Gly Ser His Leu Ser Val Val Cys Xaa Phe Tyr Gly Thr Gly Ile
          180         185         190
Gly Gly Tyr Leu Ser Ser Asp Val Ser Ser Ser Pro Arg Lys Ala Ala
          195         200         205
Val Ala Ser Val Met Tyr Thr Val Ala Ile Pro
          210         215

```

<210> 1746

<211> 218

<212> PRT

<213> Unknown (H38g664 protein)

<220>

<223> Synthetic construct

<400> 1746

```

Leu Pro Asp Ile Gly Phe Pro Ser Pro Thr Val Pro Lys Met Val Val
 1           5           10           15
Asp Ile Gln Ser His Ser Arg Val Ile Ser Tyr Ala Gly Cys Leu Thr
          20          25          30
Gln Met Ser Leu Phe Ala Ile Phe Gly Gly Met Glu Glu Thr Leu Leu
          35          40          45
Leu Asn Val Met Ala Tyr Val Arg Phe Val Ala Ile Cys His Pro Leu
          50          55          60
Tyr His Ser Ala Ile Met Asn Pro Cys Phe Cys Gly Phe Leu Leu Leu
          65          70          75          80
Leu Ser Phe Phe Phe Leu Gly Leu Leu Asp Ala Gln Leu His Asn Met
          85          90          95
Ile Ala Leu Gln Met Thr Cys Ile Lys Asp Val Glu Ile Pro Asn Phe

```

```

      100      105      110
Phe Cys Asp Pro Ser Gln Leu Pro His Leu Ala Cys Cys Asp Thr Phe
      115      120      125
Thr Asn Asn Ile Val Met Tyr Phe Leu Ala Ala Ile Phe Gly Phe Leu
      130      135      140
Pro Ile Ser Arg Ile Ile Phe Ser Tyr Tyr Lys Ile Val Ser Ser Met
145      150      155      160
Leu Ser Val Ser Ser Ser Gly Gly Lys Tyr Lys Ala Phe Ser Ile Cys
      165      170      175
Gly Ser Pro Leu Ser Val Val Cys Leu Phe Tyr Gly Lys Val Val Gly
      180      185      190
Gly Tyr Leu Ser Ser Asp Val Ser Ser Ser Pro Arg Lys Gly Ala Val
      195      200      205
Ala Ser Met Met Tyr Thr Val Ile Thr Pro
      210      215

```

<210> 1747

<211> 216

<212> PRT

<213> Unknown (H38g665 protein)

<220>

<223> Synthetic construct

<400> 1747

```

Leu Val Asp Phe Cys Tyr Ser Ser Ala Val Thr Pro Thr Val Ile Ala
 1      5      10      15
Gly Leu Val Ile Gly Asp Lys Val Ile Ser Tyr Asn Ala Cys Ala Ala
      20      25      30
Gln Met Phe Phe Phe Ala Ala Phe Ala Thr Val Glu Asn Phe Leu Leu
      35      40      45
Ala Ser Met Ala Tyr Asp Arg His Asp Ala Val Cys Lys Pro Leu His
      50      55      60
Tyr Thr Thr Thr Met Thr Thr Ser Val Cys Ala Cys Leu Ala Ile Ile
      65      70      75      80
Cys Tyr Val Cys Gly Phe Leu Asn Ala Ser Ile His Ile Gly Glu Thr
      85      90      95
Leu Ser Leu Phe Leu Tyr Gly Pro Asn Glu Val His Cys Phe Phe Cys
      100      105      110
Asp Val Pro Pro Val Met Ala Leu Ser Cys Cys Asp Arg His Val Asn
      115      120      125
Gly Leu Val Leu Ile Tyr Val Ala Ser Phe Asn Ile Phe Ser Ala Ile
      130      135      140
Leu Val Ile Leu Ile Ser Tyr Leu Phe Ile Phe Ile Thr Ile Leu Arg
145      150      155      160
Thr His Ser Ala Ser Gly Tyr Gln Lys Ala Leu Ser Thr Cys Ala Ser
      165      170      175
His Leu Thr Ala Val Ile Ile Phe Tyr Gly Thr Ile Ile Ser Met Tyr
      180      185      190
Leu Gln Pro Ser Ser Gly His Ser Met Asp Thr Asp Lys Leu Ala Ser
      195      200      205
Val Ser Tyr Thr Met Ile Ile Pro
      210      215

```

<210> 1748

<211> 216

<212> PRT

<213> Unknown (H38g666 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(216)

<223> Xaa = Any Amino Acid

<400> 1748

```

Leu Pro Asp Ile Gly Phe Thr Ser Thr Met Val Pro Lys Met Ile Val
 1           5           10           15
Asp Ile Gln Ser His Ser Arg Val Ile Ser Tyr Ala Gly Cys Leu Thr
          20           25           30
Gln Met Ser Leu Phe Ala Ile Phe Gly Gly Met Glu Glu Asn Met Leu
          35           40           45
Leu Ser Val Met Ala Tyr Asp Arg Phe Val Ala Ile Cys His Pro Leu
          50           55           60
Tyr His Ser Ala Ile Met Asn Pro Cys Phe Cys Gly Phe Leu Val Leu
          65           70           75           80
Leu Ser Phe Phe Phe Ser Phe Ser Gln Leu His Asn Leu Ile Ala Leu
          85           90           95
Lys Met Thr Cys Phe Lys Asp Val Glu Ile Pro Asn Phe Phe Cys Asp
          100           105           110
Pro Ser Gln Leu Pro His Leu Ala Cys Cys Asp Thr Phe Thr Asn Lys
          115           120           125
Ile Ile Met Tyr Phe Pro Ala Ala Ile Phe Gly Phe Leu Pro Ile Ser
          130           135           140
Gly Thr Leu Phe Ser Tyr Ser Lys Ile Val Ser Ser Ile Leu Arg Val
          145           150           155           160
Ser Ser Ser Gly Gly Lys Tyr Lys Ala Phe Ser Thr Cys Gly Ser His
          165           170           175
Leu Ser Val Val Cys Xaa Val Tyr Gly Thr Gly Val Gly Gly Tyr Leu
          180           185           190
Ser Ser Asp Asp Val Ser Ser Ser Pro Arg Lys Gly Ala Val Ala Ser
          195           200           205
Val Met Tyr Thr Val Val Thr Pro
          210           215

```

<210> 1749

<211> 217

<212> PRT

<213> Unknown (H38g667 protein)

<220>

<223> Synthetic construct

<400> 1749

```

Ile Ile Asp Ile Ser Tyr Ala Ser Asn Lys Val Pro Lys Met Leu Thr
 1           5           10           15
Asn Leu Gly Leu Asn Lys Arg Lys Thr Ile Ser Phe Val Pro Cys Thr
          20           25           30
Met Gln Thr Phe Leu Tyr Met Ala Phe Ala His Thr Glu Cys Leu Ile
          35           40           45
Leu Val Met Met Ser Tyr Asp Arg Tyr Met Ala Ile Cys His Pro Leu
          50           55           60
Gln Tyr Ser Val Ile Met Arg Trp Gly Val Cys Thr Val Leu Ala Val
          65           70           75           80
Thr Ser Trp Ala Cys Gly Ser Leu Leu Ala Leu Val His Val Val Leu
          85           90           95
Ile Leu Arg Leu Pro Phe Cys Gly Pro His Glu Ile Asn His Phe Phe
          100           105           110
Cys Glu Ile Leu Ser Val Leu Lys Leu Ala Cys Ala Asp Thr Trp Leu
          115           120           125
Asn Gln Val Val Ile Phe Ala Ala Ser Val Phe Ile Leu Val Gly Pro

```

| | | |
|---|-----|-----|
| 130 | 135 | 140 |
| Leu Cys Leu Val Leu Val Ser Tyr Ser Arg Ile Leu Ala Ala Ile Leu | | |
| 145 | 150 | 155 |
| Gly Ile Gln Ser Gly Glu Gly Arg Arg Lys Ala Phe Ser Thr Cys Ser | | 160 |
| | 165 | 170 |
| Ser His Leu Cys Met Val Gly Leu Phe Phe Gly Ser Ala Ile Val Met | | 175 |
| | 180 | 185 |
| Tyr Met Ala Pro Lys Ser Arg His Pro Glu Glu Gln Gln Lys Val Leu | | 190 |
| | 195 | 200 |
| Ser Leu Phe Tyr Ser Leu Phe Asn Pro | | 205 |
| 210 | 215 | |

<210> 1750

<211> 216

<212> PRT

<213> Unknown (H38g668 protein)

<220>

<223> Synthetic construct

<400> 1750

| | | |
|---|-----|-----|
| Leu Val Asp Phe Cys Tyr Ser Ser Ala Val Thr Pro Thr Val Ile Ala | | |
| 1 | 5 | 10 |
| Gly Leu Val Ile Gly Asp Glu Val Ile Ser Tyr Ser Ala Cys Ala Ala | | 15 |
| | 20 | 25 |
| Gln Met Phe Phe Phe Ala Ala Phe Ala Thr Val Glu Asn Phe Leu Leu | | 30 |
| | 35 | 40 |
| Ala Ser Met Ala Tyr Asp Arg Tyr Asp Ala Val Cys Lys Pro Leu His | | 45 |
| | 50 | 55 |
| Tyr Thr Thr Thr Met Thr Thr Ser Val Cys Ala Cys Leu Ala Ile Ile | | 60 |
| 65 | 70 | 75 |
| Cys Tyr Val Cys Gly Phe Leu Asn Ala Ser Ile His Ile Gly Glu Thr | | 80 |
| | 85 | 90 |
| Leu Ser Leu Phe Leu Asn Gly Pro Asn Glu Val His Cys Ile Phe Cys | | 95 |
| | 100 | 105 |
| Asp Val Pro Pro Val Met Ala Leu Ser Cys Cys Asp Arg His Val Asn | | 110 |
| | 115 | 120 |
| Glu Leu Val Leu Ile Tyr Val Ala Ser Phe Asn Ile Phe Ser Ala Ile | | 125 |
| | 130 | 135 |
| Leu Val Ile Leu Val Ser Tyr Leu Phe Ile Phe Ile Thr Ile Leu Glu | | 140 |
| 145 | 150 | 155 |
| Met His Ser Ala Ser Gly Tyr Gln Lys Ala Leu Ser Asn Cys Ala Ser | | 160 |
| | 165 | 170 |
| His Leu Thr Ala Val Ile Ile Phe Tyr Gly Thr Ile Ile Phe Met Tyr | | 175 |
| | 180 | 185 |
| Leu Gln Pro Ser Ser Gly His Ser Met Asp Thr Asp Lys Leu Ala Ser | | 190 |
| | 195 | 200 |
| Val Phe Tyr Thr Met Ile Ile Pro | | 205 |
| 210 | 215 | |

<210> 1751

<211> 311

<212> PRT

<213> Unknown (H38g669 protein)

<220>

<223> Synthetic construct

<400> 1751

| | | |
|---|---|----|
| Met Ala Ala Glu Asn Ser Ser Phe Val Thr Gln Phe Ile Leu Ala Gly | | |
| 1 | 5 | 10 |
| | | 15 |

Leu Thr Asp Gln Pro Gly Val Gln Ile Pro Leu Phe Phe Leu Phe Leu
 20 25 30
 Gly Phe Tyr Val Val Thr Val Val Gly Asn Leu Gly Leu Ile Thr Leu
 35 40 45
 Ile Arg Leu Asn Ser His Leu His Thr Pro Met Tyr Phe Phe Leu Tyr
 50 55 60
 Asn Leu Ser Phe Ile Asp Phe Cys Tyr Ser Ser Val Ile Thr Pro Lys
 65 70 75 80
 Met Leu Met Ser Phe Val Leu Lys Lys Asn Ser Ile Ser Tyr Ala Gly
 85 90 95
 Cys Met Thr Gln Leu Phe Phe Phe Leu Phe Phe Val Val Ser Glu Ser
 100 105 110
 Phe Ile Leu Ser Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Asn
 115 120 125
 Pro Leu Leu Tyr Met Val Thr Met Ser Pro Gln Val Cys Phe Leu Leu
 130 135 140
 Leu Leu Gly Val Tyr Gly Met Gly Phe Ala Gly Ala Met Ala His Thr
 145 150 155 160
 Ala Cys Met Met Gly Val Thr Phe Cys Ala Asn Asn Leu Val Asn His
 165 170 175
 Tyr Met Cys Asp Ile Leu Pro Leu Leu Glu Cys Ala Cys Thr Ser Thr
 180 185 190
 Tyr Val Asn Glu Leu Val Val Phe Val Val Val Gly Ile Asp Ile Gly
 195 200 205
 Val Pro Thr Val Thr Ile Phe Ile Ser Tyr Ala Leu Ile Leu Ser Ser
 210 215 220
 Ile Phe His Ile Asp Ser Thr Glu Gly Arg Ser Lys Ala Phe Ser Thr
 225 230 235 240
 Cys Ser Ser His Ile Ala Val Ser Leu Phe Phe Gly Ser Gly Ala
 245 250 255
 Phe Met Tyr Leu Lys Pro Phe Ser Leu Leu Ala Met Asn Gln Gly Lys
 260 265 270
 Val Ser Ser Leu Phe Tyr Thr Thr Val Val Pro Met Leu Asn Pro Leu
 275 280 285
 Ile Tyr Ser Leu Arg Asn Lys Asp Val Lys Val Ala Leu Lys Lys Ile
 290 295 300
 Leu Asn Lys Asn Ala Phe Ser
 305 310

<210> 1752

<211> 309

<212> PRT

<213> Unknown (H38g670 protein)

<220>

<223> Synthetic construct

<400> 1752

Met Thr Leu Arg Asn Ser Ser Ser Val Thr Glu Phe Ile Leu Val Gly
 1 5 10 15
 Leu Ser Glu Gln Pro Glu Leu Gln Leu Pro Leu Phe Leu Leu Phe Leu
 20 25 30
 Gly Ile Tyr Val Phe Thr Val Val Gly Asn Leu Gly Leu Ile Thr Leu
 35 40 45
 Ile Gly Ile Asn Pro Ser Leu His Thr Pro Met Tyr Phe Phe Leu Phe
 50 55 60
 Asn Leu Ser Phe Ile Asp Leu Cys Tyr Ser Cys Val Phe Thr Pro Lys
 65 70 75 80
 Met Leu Asn Asp Phe Val Ser Glu Ser Ile Ile Ser Tyr Val Gly Cys
 85 90 95
 Met Thr Gln Leu Phe Phe Phe Cys Phe Phe Val Asn Ser Glu Cys Tyr

```

100      105      110
Val Leu Val Ser Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Asn Pro
115      120      125
Leu Leu Tyr Met Val Thr Met Ser Pro Arg Val Cys Phe Leu Leu Met
130      135      140
Phe Gly Ser Tyr Val Val Gly Phe Ala Gly Ala Met Ala His Thr Gly
145      150      155
Ser Met Leu Arg Leu Thr Phe Cys Asp Ser Asn Val Ile Asp His Tyr
165      170      175
Leu Cys Asp Val Leu Pro Leu Leu Gln Leu Ser Cys Thr Ser Thr His
180      185      190
Val Ser Glu Leu Val Phe Phe Ile Val Val Gly Val Ile Thr Met Leu
195      200      205
Ser Ser Ile Ser Ile Val Ile Ser Tyr Ala Leu Ile Leu Ser Asn Ile
210      215      220
Leu Cys Ile Pro Ser Ala Glu Gly Arg Ser Lys Ala Phe Ser Thr Trp
225      230      235
Gly Ser His Ile Ile Ala Val Ala Leu Phe Phe Gly Ser Gly Thr Phe
245      250      255
Thr Tyr Leu Thr Thr Ser Phe Pro Gly Ser Met Asn His Gly Arg Phe
260      265      270
Ala Ser Val Phe Tyr Thr Asn Val Val Pro Met Leu Asn Pro Ser Ile
275      280      285
Tyr Ser Leu Arg Asn Lys Asp Asp Lys Leu Ala Leu Gly Lys Thr Leu
290      295      300
Lys Arg Val Leu Phe
305

```

<210> 1753

<211> 297

<212> PRT

<213> Unknown (H38g671 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(297)

<223> Xaa = Any Amino Acid

<400> 1753

```

Met Lys Xaa Met Ala Val Glu Asn Asn Ser Ser Val Thr Glu Phe Ile
1      5      10      15
Leu Val Arg Leu Thr Asn Ser Arg Cys Pro Ser Val Leu Phe Leu Met
20      25      30
Trp Ser Leu Trp Gly Glu Phe Glu His Asn Phe Met Ser Leu Asn Ser
35      40      45
His Leu His Thr Pro Thr His Phe Phe Leu Phe Thr Leu Ser Phe Ile
50      55      60
Asp Val Cys Tyr Ser Phe Val Cys Thr Thr Lys Ile Pro Met Gly Phe
65      70      75      80
Ile Ser Glu Arg Asn Ile Ile Ser Phe Val Gly Trp Pro Thr Xaa Leu
85      90      95
Tyr Phe Phe Cys Ile Phe Val Lys Glu Pro Lys Asn Gly Val Ile Val
100      105      110
Gly Ile Met Phe Ser Ala Lys Met Leu Val Cys Arg Glu Ile Met Asp
115      120      125
Xaa Ser Leu Met Xaa Asn Xaa Lys Met His Met Ala Leu Glu Arg Ser
130      135      140
Asp Phe Arg Met Gly Xaa Thr Gly Ser Ala Thr Lys Lys His Leu Ile
145      150      155      160

```


Ile Phe Leu Tyr Tyr Ser Asp Tyr Phe Gln Arg Xaa Xaa Gly Cys Arg
 165 170 175
 Ala Leu Gly Gln Gly Ser Leu Ala Lys Gln Asp Thr Thr Leu Xaa Asn
 180 185 190
 Cys Thr Cys Thr Leu Lys Ser Leu Leu His Ile Ile Ile Cys Phe Tyr
 195 200 205
 Ile Trp Lys Gln Lys Lys Ile Ser Tyr Leu Tyr His Lys Ser Xaa Lys
 210 215 220
 Met Asp Leu Tyr Lys Ile Cys His Val Leu Trp Val Thr His Lys Lys
 225 230 235 240
 Asn Phe Leu Arg Pro Ser Ser Thr Ser Gln Met Val Gln Gly Lys Met
 245 250 255
 Leu Leu Lys Gly Tyr Ile Xaa Phe Trp Arg Met Ser Leu Pro Met Cys
 260 265 270
 Ala Ile Phe Ile Phe Val Arg Arg Tyr Tyr Tyr Leu Leu Lys Lys Leu
 275 280 285
 Lys Thr Leu Leu Tyr Lys Asn Ser Tyr
 290 295

<210> 1754

<211> 313

<212> PRT

<213> Unknown (H38g672 protein)

<220>

<223> Synthetic construct

<400> 1754

Met Leu Ala Arg Asn Asn Ser Leu Val Thr Glu Phe Ile Leu Ala Gly
 1 5 10 15
 Leu Thr Asp Arg Pro Glu Phe Arg Gln Pro Leu Phe Phe Leu Phe Leu
 20 25 30
 Val Val Tyr Ile Val Thr Met Val Gly Asn Leu Gly Leu Ile Ile Leu
 35 40 45
 Phe Gly Leu Asn Ser His Leu His Thr Pro Met Tyr Tyr Phe Leu Phe
 50 55 60
 Asn Leu Ser Phe Ile Asp Leu Cys Tyr Ser Ser Val Phe Thr Pro Lys
 65 70 75 80
 Met Leu Met Asn Phe Val Ser Lys Lys Asn Ile Ile Ser Tyr Val Gly
 85 90 95
 Cys Met Thr Gln Leu Phe Phe Phe Leu Phe Phe Val Ile Ser Glu Cys
 100 105 110
 Tyr Met Leu Thr Ser Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Asn
 115 120 125
 Pro Leu Leu Tyr Lys Val Thr Met Ser His Gln Val Cys Ser Met Leu
 130 135 140
 Thr Phe Ala Ala Tyr Ile Met Gly Leu Ala Gly Ala Thr Ala His Thr
 145 150 155 160
 Gly Cys Met Leu Arg Leu Thr Phe Cys Ser Ala Asn Ile Ile Asn His
 165 170 175
 Tyr Leu Cys Asp Ile Leu Pro Leu Leu Gln Leu Ser Cys Thr Ser Thr
 180 185 190
 Tyr Val Asn Glu Val Val Val Leu Ile Val Val Gly Ile Asn Ile Met
 195 200 205
 Val Pro Ser Cys Thr Ile Leu Ile Ser Tyr Val Phe Ile Val Thr Ser
 210 215 220
 Ile Leu His Ile Lys Ser Thr Gln Gly Arg Ser Lys Ala Phe Ser Thr
 225 230 235 240
 Cys Ser Ser His Val Ile Ala Leu Ser Leu Phe Phe Gly Ser Ala Ala
 245 250 255
 Phe Met Tyr Ile Lys Tyr Ser Ser Gly Ser Met Glu Gln Gly Lys Val

260 265 270
 Ser Ser Val Phe Tyr Thr Asn Val Pro Met Leu Asn Pro Leu Ile
 275 280 285
 Tyr Ser Leu Arg Asn Lys Asp Val Lys Val Ala Leu Arg Lys Ala Leu
 290 295 300
 Ile Lys Ile Gln Arg Arg Asn Ile Phe
 305 310

<210> 1755

<211> 357

<212> PRT

<213> Unknown (H38g673 protein)

<220>

<223> Synthetic construct

<400> 1755

Met Asn Trp Val Asn Lys Ser Val Pro Gln Glu Phe Ile Leu Leu Val
 1 5 10 15
 Phe Ser Asp Gln Pro Trp Leu Glu Ile Pro Pro Phe Val Met Phe Leu
 20 25 30
 Phe Ser Tyr Ile Leu Thr Ile Phe Gly Asn Leu Thr Ile Ile Leu Val
 35 40 45
 Ser His Val Asp Phe Lys Leu His Thr Pro Met Tyr Phe Phe Leu Ser
 50 55 60
 Asn Leu Ser Leu Leu Asp Leu Cys Tyr Thr Thr Ser Thr Val Pro Gln
 65 70 75 80
 Met Leu Val Asn Ile Cys Asn Thr Arg Lys Val Ile Ser Tyr Gly Gly
 85 90 95
 Cys Val Ala Gln Leu Phe Ile Phe Leu Ala Leu Gly Ser Thr Glu Cys
 100 105 110
 Leu Leu Leu Ala Val Met Cys Phe Asp Arg Phe Val Ala Ile Cys Arg
 115 120 125
 Pro Leu His Tyr Ser Ile Ile Met His Gln Arg Leu Cys Phe Gln Leu
 130 135 140
 Ala Ala Ala Ser Trp Ile Ser Gly Phe Ser Asn Ser Val Leu Gln Ser
 145 150 155 160
 Thr Trp Thr Leu Lys Met Pro Leu Cys Gly His Lys Glu Val Asp His
 165 170 175
 Phe Phe Cys Glu Val Pro Ala Leu Leu Lys Leu Ser Cys Val Asp Thr
 180 185 190
 Thr Ala Asn Glu Ala Glu Leu Phe Phe Ile Ser Val Leu Phe Leu Leu
 195 200 205
 Ile Pro Val Thr Leu Ile Leu Ile Ser Tyr Ala Phe Ile Val Gln Ala
 210 215 220
 Val Leu Arg Ile Gln Ser Ala Glu Gly Gln Arg Lys Ala Phe Gly Thr
 225 230 235 240
 Cys Gly Ser His Leu Ile Val Val Ser Leu Phe Tyr Gly Thr Ala Ile
 245 250 255
 Ser Met Tyr Leu Gln Pro Pro Ser Pro Ser Ser Lys Asp Arg Gly Lys
 260 265 270
 Met Val Ser Leu Phe Cys Gly Ile Ala Pro Met Leu Asn Pro Leu
 275 280 285
 Ile Tyr Thr Leu Arg Asn Lys Glu Val Lys Glu Ala Phe Lys Arg Leu
 290 295 300
 Val Ala Lys Ser Leu Leu Asn Gln Glu Ile Arg Asn Met Gln Met Ile
 305 310 315 320
 Ser Phe Ala Lys Asp Thr Val Leu Thr Tyr Leu Thr Asn Phe Ser Ala
 325 330 335
 Ser Cys Pro Ile Phe Val Ile Thr Ile Glu Asn Tyr Cys Asn Leu Pro
 340 345 350

Gln Arg Lys Phe Pro
355

<210> 1756

<211> 331

<212> PRT

<213> Unknown (H38g674 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(331)

<223> Xaa = Any Amino Acid

<400> 1756

```

Met Ala Pro Gly Asn Gly Phe Phe Met Thr Lys Ile Ile Leu Leu Glu
 1           5           10           15
Leu Thr Asp Gln Pro Asp Leu Gln Leu Pro Leu Phe Phe Leu Phe Leu
 20           25           30
Val Tyr Gly His Cys Val Gly Lys Phe Gly Leu Val Thr Leu Val Val
 35           40           45
Leu Asn Ser His Leu His Thr Pro Met Tyr Phe Phe Leu Phe Asn Leu
 50           55           60
Ser Phe Ile Asp Leu Cys Tyr Ser Ser Val Phe Thr Pro Gln Met Leu
 65           70           75           80
Met Asn Phe Ile Thr Gln Lys Asp Ile Ile Ser His Met Gly Cys Met
 85           90           95
Ser Gln Leu Phe Phe Phe Ala Leu Phe Phe Phe Gly Ile Ser Glu Cys
100           105           110
Tyr Val Leu Thr Ser Met Ala Tyr Asp Arg Ala Cys His His Asp His
115           120           125
His Val Ala Ile Cys Asn Pro Leu Leu Tyr Asn Ile Ala Met Ser Pro
130           135           140
Lys Val Tyr Ser His Leu Met Leu Gly Leu Tyr Leu Leu Ala Phe Ser
145           150           155           160
Ser Ala Met Ala His Thr Gly Cys Met Leu Arg Leu Thr Phe Cys Asp
165           170           175
Ala Asn Thr Ile His Pro Tyr Leu Cys Asp Ile Leu Pro Leu Leu Gln
180           185           190
Leu Ser Cys Thr Gly Thr Tyr Ile Asn Glu Leu Val Val Ser Thr Ala
195           200           205
Ala Val Ile Ile Ser Thr Val Thr Ile Phe Ile Ser Cys Gly Cys Ser
210           215           220
Ser Tyr Ile Ile Leu His Ile Asn Ser Lys Glu Gly Arg Ser Lys Ala
225           230           235           240
Leu Asn Thr Cys Ser Ser Asn Leu Ile Ala Val Ser Leu Met Phe Gly
245           250           255
Ser Cys Ala Phe Met Cys Leu Lys Pro Ser Ser Ala Gly Ser Met Asp
260           265           270
Glu Gly Lys Ile Ser Ser Val Phe Tyr Thr Asn Thr Ala Pro Leu Met
275           280           285
Asn Pro Leu Ile Tyr Ser Leu Met Asn Lys Met Phe Asn Phe Leu Xaa
290           295           300
Glu Lys Asn Pro Ser Arg Lys Lys Phe Xaa Leu Glu Ile Val Ser Phe
305           310           315           320
Cys Ala Cys Ile Phe Arg Thr Gly Ser Phe Cys
325           330

```

<210> 1757

<211> 332

<212> PRT
 <213> Unknown (H38g675 protein)

<220>
 <223> Synthetic construct

<221> VARIANT
 <222> (1)...(332)
 <223> Xaa = Any Amino Acid

<400> 1757
 Met Ala Pro Gly Asn Gly Ser Leu Met Asn Glu Phe Ile Leu Val Gly
 1 5 10 15
 Leu Thr Asp Xaa Pro Asp Leu Xaa Leu Pro Leu Phe Phe Met Phe Leu
 20 25 30
 Val Met Tyr Val Val Thr Val Ile Arg Asn Phe Val Leu Val Ile Leu
 35 40 45
 Thr Met Arg Asn Ser Arg Leu His Thr Pro Lys Tyr Phe Phe Leu Ser
 50 55 60
 Lys Leu Phe Phe Thr Asp Leu Cys Tyr Ser Ser Val Phe Ile Leu Gln
 65 70 75 80
 Leu Pro Arg Lys Cys Ile Ser Glu Glu Asn Val Ile Ser Tyr Met Val
 85 90 95
 Cys Met Ile Xaa Leu Phe Phe Phe Phe Phe Phe Phe Phe Xaa
 100 105 110
 Phe Ile Ser Glu Cys Tyr Met Leu Thr Ser Met Ala Tyr Asp Cys Cys
 115 120 125
 Val Ala Ile Cys Tyr Pro Leu Leu Tyr His Ile Ala Met Ser Pro Lys
 130 135 140
 Val Cys Phe Ser Leu Met Leu Gly Ser Tyr Phe Leu Ser Phe Ser Gly
 145 150 155 160
 Ala Met Ala His Thr Gly Cys Met Leu Arg Leu Thr Cys Asp Ala Asn
 165 170 175
 Thr Ile Asn His Tyr Phe Arg Asp Ile Leu Pro Val Phe Gln Leu Ser
 180 185 190
 Cys Thr Ser Thr Tyr Ile Asn Glu Leu Val Val Phe Ile Val Ala Gly
 195 200 205
 Ile Asn Thr Ile Val Pro Thr Val Thr Val Phe Ile Ser Tyr Gly Asp
 210 215 220
 Ile Leu Ser Arg Ile Leu His Ile Ser Ser Asn Glu Gly Arg Ser Lys
 225 230 235 240
 Ala Phe Ser Thr Cys Ser Ser His Ile Ile Ala Val Ser Leu Phe Phe
 245 250 255
 Gly Leu Ser Ala Phe Met Tyr Leu Lys Pro Ser Ser Ala Gly Ser Met
 260 265 270
 Asp Glu Gly Lys Phe Ser Ser Val Phe Tyr Met Asn Gly Leu Pro Met
 275 280 285
 Met Ser Ser Leu Ile Tyr Ser Leu Arg Arg Lys Asp Val Lys Phe Ala
 290 295 300
 Met Gly Lys Ser Leu Ser Arg Arg Met Phe Leu Pro Xaa Thr Thr Phe
 305 310 315 320
 Leu Cys Val Cys Ser Tyr Arg Met Gly Ile Leu Cys
 325 330

<210> 1758
 <211> 313
 <212> PRT
 <213> Unknown (H38g676 protein)

<220>
 <223> Synthetic construct

<400> 1758
 Met Asp Ser Leu Asn Gln Thr Arg Val Thr Glu Phe Val Phe Leu Gly
 1 5 10 15
 Leu Thr Asp Asn Arg Val Leu Glu Met Leu Phe Phe Met Ala Phe Ser
 20 25 30
 Ala Ile Tyr Met Leu Thr Leu Ser Gly Asn Ile Leu Ile Ile Ala
 35 40 45
 Thr Val Phe Thr Pro Ser Leu His Thr Pro Met Tyr Phe Phe Leu Ser
 50 55 60
 Asn Leu Ser Phe Ile Asp Ile Cys His Ser Ser Val Thr Val Pro Lys
 65 70 75 80
 Met Leu Glu Gly Leu Leu Leu Glu Arg Lys Thr Ile Ser Phe Asp Asn
 85 90 95
 Cys Ile Thr Gln Leu Phe Phe Leu His Leu Phe Ala Cys Ala Glu Ile
 100 105 110
 Phe Leu Leu Ile Ile Val Ala Tyr Asp Arg Tyr Val Ala Ile Cys Thr
 115 120 125
 Pro Leu His Tyr Pro Asn Val Met Asn Met Arg Val Cys Ile Gln Leu
 130 135 140
 Val Phe Ala Leu Trp Leu Gly Gly Thr Val His Ser Leu Gly Gln Thr
 145 150 155 160
 Phe Leu Thr Ile Arg Leu Pro Tyr Cys Gly Pro Asn Ile Ile Asp Ser
 165 170 175
 Tyr Phe Cys Asp Val Pro Leu Val Ile Lys Leu Ala Cys Thr Asp Thr
 180 185 190
 Tyr Leu Thr Gly Ile Leu Ile Val Thr Asn Ser Gly Thr Ile Ser Leu
 195 200 205
 Ser Cys Phe Leu Ala Val Val Thr Ser Tyr Met Val Ile Leu Val Ser
 210 215 220
 Leu Arg Lys His Ser Ala Glu Gly Arg Gln Lys Ala Leu Ser Thr Cys
 225 230 235 240
 Ser Ala His Phe Met Val Val Ala Leu Phe Phe Gly Pro Cys Ile Phe
 245 250 255
 Ile Tyr Thr Arg Pro Asp Thr Ser Phe Ser Ile Asp Lys Val Val Ser
 260 265 270
 Val Phe Tyr Thr Val Val Thr Pro Leu Leu Asn Pro Phe Ile Tyr Thr
 275 280 285
 Leu Arg Asn Glu Glu Val Lys Ser Ala Met Lys Gln Leu Arg Gln Arg
 290 295 300
 Gln Val Phe Phe Thr Lys Ser Tyr Thr
 305 310

<210> 1759

<211> 331

<212> PRT

<213> Unknown (H38g677 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(331)

<223> Xaa = Any Amino Acid

<400> 1759

Met Ala Pro Gly Asn Ile Ser Thr Val Ala Glu Leu Ile Leu Val Gly
 1 5 10 15
 Leu Lys Asp Gln Thr Asp Leu Gln Pro Pro Leu Phe Phe Leu Phe Leu
 20 25 30
 Val Met Gly Val Val Ala Gly Xaa Gly Asn Leu Gly Leu Val Thr Leu

```
<210> 1760
<211> 322
<212> PRT
<213> Unknown (H38g678 protein)
```

<220>
<223> Synthetic construct

```
<221> VARIANT
<222> (1)...(322)
<223> Xaa = Any Amino Acid
```

| <400> 1760 | | | | | | | | | | | | | | | | |
|------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| Met | Ser | Val | Val | Glu | Ala | Asn | Asn | Ile | Ser | Gly | Pro | Val | Ser | Glu | Phe | |
| 1 | | | | 5 | | | | 10 | | | | | 15 | | | |
| Ile | Leu | Leu | Gly | Phe | Pro | Cys | Arg | Cys | Arg | Glu | Thr | Lys | Ile | Leu | Leu | |
| | | | 20 | | | | | 25 | | | | | 30 | | | |
| Phe | Val | Val | Phe | Ser | Leu | Ile | Tyr | Leu | Leu | Thr | Leu | Met | Gly | Asn | Thr | |
| | | | 35 | | | | 40 | | | | | 45 | | | | |
| Ser | Ile | Ile | Cys | Ala | Val | Trp | Ser | Ser | Gln | Lys | Leu | His | Thr | Pro | Met | |
| | 50 | | | | | 55 | | | | | 60 | | | | | |
| Tyr | Ile | Leu | Leu | Ala | Asn | Phe | Ser | Phe | Leu | Glu | Ile | Cys | Cys | Ile | Ser | |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 | |

Ser Asp Val Pro Asn Met Leu Ala Asn Leu Ile Ser His Ile Lys Ser
 85 90 95
 Ile Ser Tyr Ala Gly Cys Leu Leu Gln Phe Phe Tyr Phe Ser Met Cys
 100 105 110
 Ala Ala Glu Gly Tyr Phe Leu Ser Val Met Ser Phe Asp Arg Phe Leu
 115 120 125
 Thr Ile Cys Arg Pro Leu His Tyr Pro Thr Val Met Thr His His Leu
 130 135 140
 Cys Val Xaa Leu Val Ala Phe Cys Arg Ala Gly Gly Phe Leu Ser Ile
 145 150 155 160
 Leu Met Pro Ala Val Leu Met Ser Arg Val Pro Phe Cys Gly Pro Asn
 165 170 175
 Ile Thr Asp His Phe Phe Cys Asn Leu Gly Pro Leu Leu Ala Leu Ser
 180 185 190
 Cys Ala Pro Val Pro Lys Thr Thr Leu Thr Cys Ala Thr Val Ser Ser
 195 200 205
 Leu Ile Ile Phe Ile Thr Phe Leu Tyr Ile Leu Gly Ser His Ile Leu
 210 215 220
 Val Leu Arg Ala Val Leu Trp Val Pro Ala Gly Ser Gly Arg Asn Lys
 225 230 235 240
 Ala Phe Ser Thr Cys Ala Ser His Phe Leu Val Val Ser Phe Phe Tyr
 245 250 255
 Gly Ser Val Met Val Met Tyr Val Ser Pro Gly Ser Arg Ser Arg Pro
 260 265 270
 Gly Thr Gln Lys Phe Val Thr Leu Phe Tyr Cys Thr Ala Thr Pro Phe
 275 280 285
 Phe Asn Pro Leu Thr Tyr Ser Leu Trp Asn Lys Asp Met Thr Asp Ala
 290 295 300
 Leu Lys Lys Val Leu Gly Val Pro Ser Lys Glu Ile Tyr Trp Asn Thr
 305 310 315 320
 Leu Lys

<210> 1761

<211> 335

<212> PRT

<213> Unknown (H38g679 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(335)

<223> Xaa = Any Amino Acid

<400> 1761

Met Glu Glu Ala Ile Leu Leu Asn Gln Thr Ser Leu Val Thr Tyr Phe
 1 5 10 15
 Arg Leu Arg Gly Leu Ser Val Asn His Lys Ala Arg Ile Ala Met Phe
 20 25 30
 Ser Met Phe Leu Ile Phe Tyr Val Leu Thr Leu Ile Gly Asn Val Leu
 35 40 45
 Ile Val Ile Thr Ile Ile Tyr Asp His Arg Leu His Thr Pro Met Tyr
 50 55 60
 Phe Phe Leu Ser Asn Leu Ser Phe Ile Asp Val Cys His Ser Thr Val
 65 70 75 80
 Thr Val Pro Lys Met Leu Arg Asp Val Trp Ser Glu Glu Lys Leu Ile
 85 90 95
 Ser Phe Asp Ala Cys Val Thr Gln Met Phe Phe Leu His Leu Phe Ala
 100 105 110
 Cys Thr Glu Ile Phe Leu Leu Thr Val Met Ala Tyr Asp Arg Tyr Val

```

      115              120              125
Ala Ile Cys Lys Pro Leu Gln Tyr Met Ile Val Met Asn Trp Lys Val
  130              135              140
Cys Val Leu Leu Ala Val Ala Leu Trp Thr Gly Gly Thr Ile His Ser
145              150              155              160
Ile Ala Leu Thr Ser Leu Thr Ile Lys Leu Pro Tyr Cys Gly Pro Asp
      165              170              175
Glu Ile Asp Asn Phe Phe Cys Asp Val Pro Gln Val Ile Lys Leu Ala
      180              185              190
Cys Ile Asp Thr Pro Tyr Val Leu Glu Ile Leu Ile Val Ser Asn Ser
      195              200              205
Gly Leu Ile Ser Val Val Cys Phe Val Val Leu Val Val Ser Tyr Ala
  210              215              220
Val Ile Leu Val Ser Leu Arg Gln Gln Ile Ser Lys Gly Lys Trp Lys
225              230              235              240
Ala Leu Ser Thr Cys Ala Ala His Leu Thr Val Val Thr Leu Phe Leu
      245              250              255
Gly His Cys Ile Phe Ile Tyr Ser Arg Pro Ser Thr Ser Leu Pro Glu
      260              265              270
Asp Lys Ala Val Ser Val Phe Phe Thr Ala Val Thr Pro Leu Leu Asn
      275              280              285
Pro Ile Ile Tyr Thr Leu Arg Asn Glu Glu Met Lys Ser Ala Leu Asn
  290              295              300
Lys Leu Val Gly Arg Lys Glu Arg Lys Glu Glu Lys Xaa Lys Cys Pro
305              310              315              320
Thr Ser Leu Gly Tyr Val Val Leu Gln Ile Lys Glu Ala Pro Cys
      325              330              335

```

<210> 1762

<211> 161

<212> PRT

<213> Unknown (H38g680 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(161)

<223> Xaa = Any Amino Acid

<400> 1762

```

Thr Gly Thr Gly Xaa Trp Leu Cys His Ala Met Ile Leu Thr Pro Leu
  1              5              10              15
Thr Phe Gln Leu Pro Tyr Cys Gly Leu Thr Arg Trp Asp Tyr Tyr Phe
      20              25              30
Cys Asp Ile Pro Ala Val Leu Pro Leu Ala Cys Lys Asp Thr Ser Leu
      35              40              45
Ala Gln Arg Val Gly Phe Thr Asn Val Gly Leu Leu Ser Leu Ile Cys
      50              55              60
Phe Phe Leu Ile Leu Val Ser Tyr Thr Cys Ile Gly Ile Ser Ile Ser
65              70              75              80
Lys Ile Arg Ser Ala Glu Gly Arg Gln Arg Ala Phe Ser Thr Cys Ser
      85              90              95
Ala His Leu Thr Ala Ile Leu Cys Ala Tyr Gly Pro Val Ile Val Ile
      100              105              110
Tyr Leu Gln Pro Asn Pro Ser Ala Leu Leu Gly Ser Ile Ile Gln Ile
      115              120              125
Leu Asn Asn Leu Val Thr Pro Met Leu Asn Pro Leu Ile Tyr Ser Leu
      130              135              140
Arg Asn Lys Asp Val Lys Ser Asp Gln Pro Xaa Gly Met Tyr Phe Pro
145              150              155              160

```


Arg

<210> 1763

<211> 134

<212> PRT

<213> Unknown (H38g681 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(134)

<223> Xaa = Any Amino Acid

<400> 1763

```

Leu Leu Phe Leu Met Phe Phe Ile Thr Ser Leu Gly His Lys Phe His
 1           5           10           15
Leu Ile Ser Phe Pro Phe Ser Gln Gln Thr Thr Xaa Gln Lys Tyr Phe
          20           25           30
Ile Ile Phe Glu Val Xaa Leu Cys Xaa Xaa His Thr Leu Thr Ala Leu
          35           40           45
Ile Tyr Cys Xaa Met Ser Leu Phe Xaa Gly Ile Asp Leu Phe Val Gly
          50           55           60
Tyr Asn Pro Cys Ser Pro Arg Val Leu Phe Leu Phe Leu Gly Arg Gly
          65           70           75           80
Pro Ser Gly Phe Ser Leu Glu Ser Leu Ser Phe Tyr Arg Thr Ser Phe
          85           90           95
Thr Trp Gln His Leu His Leu Lys Phe Tyr Cys Pro Ser Xaa Gly Xaa
          100          105          110
Leu Leu Lys Ser Phe Leu Ser Ala Ile Trp Leu Leu Phe Ser Thr Tyr
          115          120          125
Phe Leu Arg Val Leu Ser
          130

```

<210> 1764

<211> 311

<212> PRT

<213> Unknown (H38g682 protein)

<220>

<223> Synthetic construct

<400> 1764

```

Met Ala Thr Ser Asn His Ser Ser Gly Ala Glu Phe Ile Leu Ala Gly
 1           5           10           15
Leu Thr Gln Arg Pro Glu Leu Gln Leu Pro Leu Phe Leu Phe Leu
          20           25           30
Gly Ile Tyr Val Val Thr Val Val Gly Asn Leu Gly Met Ile Phe Leu
          35           40           45
Ile Ala Leu Ser Ser Gln Leu Tyr Pro Pro Val Tyr Tyr Phe Leu Ser
          50           55           60
His Leu Ser Phe Ile Asp Leu Cys Tyr Ser Ser Val Ile Thr Pro Lys
          65           70           75           80
Met Leu Val Asn Phe Val Pro Glu Glu Asn Ile Ile Ser Phe Leu Glu
          85           90           95
Cys Ile Thr Gln Leu Tyr Phe Phe Leu Ile Phe Val Ile Ala Glu Gly
          100          105          110
Tyr Leu Leu Thr Ala Met Glu Tyr Asp Arg Tyr Val Ala Ile Cys Arg
          115          120          125
Pro Leu Leu Tyr Asn Ile Val Met Ser His Arg Val Cys Ser Ile Met

```

```

      130              135              140
Met Ala Val Val Tyr Ser Leu Gly Phe Leu Trp Ala Thr Val His Thr
145              150              155              160
Thr Arg Met Ser Val Leu Ser Phe Cys Arg Ser His Thr Val Ser His
      165              170              175
Tyr Phe Cys Asp Ile Leu Pro Leu Leu Thr Leu Ser Cys Ser Ser Thr
      180              185              190
His Ile Asn Glu Ile Leu Leu Phe Ile Ile Gly Gly Val Asn Thr Leu
      195              200              205
Ala Thr Thr Leu Ala Val Leu Ile Ser Tyr Ala Phe Ile Phe Ser Ser
      210              215              220
Ile Leu Gly Ile His Ser Thr Glu Gly Gln Ser Lys Ala Phe Gly Thr
225              230              235              240
Cys Ser Ser His Leu Leu Ala Val Gly Ile Phe Phe Gly Ser Ile Thr
      245              250              255
Phe Met Tyr Phe Lys Pro Pro Ser Ser Thr Thr Met Glu Lys Glu Lys
      260              265              270
Val Ser Ser Val Phe Tyr Ile Thr Ile Ile Pro Met Leu Asn Pro Leu
      275              280              285
Ile Tyr Ser Leu Arg Asn Lys Asp Val Lys Asn Ala Leu Lys Lys Met
      290              295              300
Thr Arg Gly Arg Gln Ser Ser
305              310

```

<210> 1765

<211> 316

<212> PRT

<213> Unknown (H38g683 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(316)

<223> Xaa = Any Amino Acid

<400> 1765

```

Met Val Ile Leu Ser Trp Glu Asn Gln Thr Met Arg Val Glu Phe Val
1      5      10      15
Leu Gln Gly Phe Ser Ser Ile Arg Gln Leu Asn Ile Phe Leu Phe Met
      20      25      30
Ile Ile Leu Val Phe Tyr Ile Leu Thr Val Ser Gly Asn Ile Leu Ile
      35      40      45
Val Leu Leu Val Leu Val Arg His His Leu His Thr Pro Met Tyr Phe
      50      55      60
Leu Leu Val Asn Leu Ser Cys Leu Glu Ile Trp Tyr Thr Ser Asn Ile
65      70      75      80
Ile Pro Lys Met Leu Leu Ile Ile Ile Ala Glu Xaa Lys Thr Ile Ser
      85      90      95
Val Ala Gly Trp Leu Ala Gln Phe Tyr Phe Phe Gly Ser Leu Ala Ala
      100      105      110
Thr Glu Cys Leu Leu Thr Val Met Ser Tyr Asp Arg Tyr Leu Ala
      115      120      125
Ile Cys Gln Pro Leu Cys Tyr Arg Val Leu Met Thr Gly Pro Leu Cys
      130      135      140
Ile Arg Leu Ala Ala Gly Ser Trp Phe Cys Cys Phe Leu Leu Thr Ala
145      150      155      160
Ile Thr Met Val Leu Leu Cys Arg Leu Thr Phe Cys Gly Pro Tyr Glu
      165      170      175
Thr Asp His Phe Phe Cys Asp Phe Thr Pro Leu Val His Leu Ser Cys
      180      185      190

```

Met Asp Thr Ser Val Thr Glu Thr Ile Ala Phe Ala Thr Ser Ser Ala
 195 200 205
 Val Thr Leu Ile Pro Phe Leu Leu Ile Val Ala Ser Tyr Ser Cys Val
 210 215 220
 Leu Ser Ala Ile Leu Arg Ile Pro Ser Cys Thr Gly Gln Lys Lys Ala
 225 230 235 240
 Phe Ser Thr Cys Ser Ser His Leu Thr Val Val Ile Val Phe Tyr Gly
 245 250 255
 Thr Leu Ile Ala Thr Tyr Leu Val Pro Ser Ala Asn Ser Ser Gln Leu
 260 265 270
 Leu Cys Lys Gly Ser Ser Leu Leu Tyr Ile Ile Leu Thr Pro Met Phe
 275 280 285
 Asn Pro Ile Ile Tyr Ser Leu Arg Asn Arg Asp Ile His Glu Ala Leu
 290 295 300
 Lys Lys Cys Leu Arg Lys Lys Ser Gly Val Cys Leu
 305 310 315

<210> 1766

<211> 315

<212> PRT

<213> Unknown (H38g684 protein)

<220>

<223> Synthetic construct

<400> 1766

Pro Val Arg Thr Leu Glu Thr Thr Asn Ile Thr Gly Phe Val Asn Glu
 1 5 10 15
 Phe Ile Leu Leu Gly Phe Pro Cys Arg Trp Glu Ile Gln Ile Leu Leu
 20 25 30
 Phe Val Val Phe Ser Leu Ile Tyr Leu Leu Thr Leu Leu Gly Asn Thr
 35 40 45
 Ser Ile Ile Cys Ala Val Trp Ser Ser Gln Lys Leu His Thr Pro Met
 50 55 60
 Tyr Ile Leu Leu Ala Asn Phe Ser Phe Leu Glu Ile Cys Cys Val Ser
 65 70 75 80
 Ser Asp Val Pro Ile Met Ala Ala Asn Leu Ile Ser Gln Thr Gln Ser
 85 90 95
 Ile Ser Cys Ala Gly Cys Leu Leu Arg Phe Tyr Phe Phe Ser Met Cys
 100 105 110
 Ala Ala Glu Cys Leu Phe Leu Ser Val Met Ser Phe Asp Arg Phe Pro
 115 120 125
 Ala Ile Cys Arg Pro Leu His Tyr Pro Thr Leu Met Thr His His Val
 130 135 140
 Cys Ala His Phe Val Ile Phe Cys Trp Val Gly Gly Cys Leu Trp Leu
 145 150 155 160
 Leu Thr Pro Leu Thr Leu Ile Ser Gln Val Leu Phe Cys Gly Pro Asn
 165 170 175
 Thr Ile Asp His Phe Phe Cys Asp Leu Ala Pro Leu Leu Ala Leu Ser
 180 185 190
 Cys Ala Pro Ile Pro Gly Ile Thr Leu Thr Cys Gly Ile Ile Ser Ala
 195 200 205
 Leu Ile Ile Phe Leu Thr Phe Leu Tyr Ile Leu Gly Thr Tyr Phe Cys
 210 215 220
 Val Leu Ser Thr Val Leu Gln Val Pro Ser Gly Leu Gly Arg His Lys
 225 230 235 240
 Ala Phe Ser Thr Cys Gly Cys His Leu Ala Val Val Ser Leu Phe Tyr
 245 250 255
 Gly Ser Leu Met Val Met Tyr Val Ser Pro Gly Ser Gly Asp Tyr His
 260 265 270
 Gly Ile Lys Lys Phe Ala Thr Leu Phe Tyr Thr Leu Ser Thr Pro Phe

275 280 285
 Phe Asn Pro Leu Ile Tyr Ser Phe Arg Asn Lys Asp Met Lys Glu Ala
 290 295 300
 Leu Lys Lys Phe Leu Arg Asn Arg His Thr Val
 305 310 315

<210> 1767
 <211> 316
 <212> PRT
 <213> Unknown (H38g685 protein)

<220>
 <223> Synthetic construct

<221> VARIANT
 <222> (1)...(316)
 <223> Xaa = Any Amino Acid

<400> 1767
 Leu Ile Ala Thr Gly Asn Trp Thr Arg Ile Ser Lys Phe Ile Leu Met
 1 5 10 15
 Ser Phe Ser Ser Leu Pro Thr Glu Ile Gln Ser Leu Leu Phe Leu Thr
 20 25 30
 Phe Leu Thr Ile Tyr Leu Val Thr Leu Met Gly Asn Cys Leu Ile Ile
 35 40 45
 Leu Val Thr Leu Ala Asp Pro Met Leu His Ser Pro Met Tyr Phe Phe
 50 55 60
 Leu Arg Asn Leu Ser Phe Leu Glu Ile Gly Phe Asn Leu Val Ile Ala
 65 70 75 80
 Pro Asn Met Leu Trp Thr Leu Leu Ala Gln Asp Thr Thr Ile Ser Phe
 85 90 95
 Leu Gly Cys Ala Thr Xaa Met Tyr Phe Val Phe Phe Phe Gly Val Ala
 100 105 110
 Glu Cys Leu Leu Leu Ala Thr Met Ala Tyr Asp Arg Tyr Val Ala Ile
 115 120 125
 Cys Ser Pro Leu His Tyr Pro Val Ile Met Asn Gln Arg Thr Leu Ala
 130 135 140
 Lys Leu Ala Ala Thr Ser Trp Phe Pro Gly Phe Pro Val Ala Thr Val
 145 150 155 160
 Gln Thr Thr Trp Leu Phe Ser Phe Pro Phe Cys Gly Thr Asn Lys Val
 165 170 175
 Asn His Phe Phe Cys Asp Ser Pro Pro Val Leu Arg Leu Val Cys Ala
 180 185 190
 Asp Thr Ala Leu Phe Glu Ile Tyr Ala Ile Val Gly Thr Ile Leu Val
 195 200 205
 Val Met Ile Pro Cys Leu Leu Ile Leu Cys Ser Tyr Thr His Ile Ala
 210 215 220
 Ala Ala Ile Leu Lys Ile Pro Ser Ala Lys Gly Lys Asn Lys Ala Phe
 225 230 235 240
 Ser Thr Cys Ser Ser His Leu Leu Val Val Ser Leu Phe Tyr Ile Ser
 245 250 255
 Leu Ser Leu Thr Tyr Phe Arg Pro Lys Ser Asn Asn Ser Pro Glu Gly
 260 265 270
 Lys Lys Leu Leu Ser Leu Ser Tyr Thr Val Met Thr Pro Met Leu Asn
 275 280 285
 Pro Ile Ile Tyr Ser Leu Arg Asn Asn Glu Val Lys Asn Ala Leu Ser
 290 295 300
 Arg Thr Val Ser Lys Ala Leu Gly Pro Gln Lys Leu
 305 310 315

<210> 1768

<211> 324
 <212> PRT
 <213> Unknown (H38g686 protein)

<220>
 <223> Synthetic construct

<221> VARIANT
 <222> (1)...(324)
 <223> Xaa = Any Amino Acid

<400> 1768
 Met Ala Val Glu Asn Asp Ser Ser Val Thr Glu Phe Ile Leu Leu Gly
 1 5 10 15
 Leu Thr Asp Gln Pro Glu Ile Xaa Leu Pro Leu Phe Phe Leu Phe Leu
 20 25 30
 Val Asn Tyr Met Thr Thr Met Val Gly Asn Leu Ser Leu Ile Asn Leu
 35 40 45
 Ile Cys Leu Asn Ser His Leu His Thr Pro Met Tyr Phe Phe Leu Phe
 50 55 60
 Asn Leu Ser Phe Ile Asp Leu Cys Tyr Ser Phe Val Phe Thr Pro Lys
 65 70 75 80
 Met Leu Met Ser Phe Ile Ser Glu Arg Asn Ile Ile Ser Phe Pro Gly
 85 90 95
 Cys Val Thr Gln Leu Phe Phe Phe Cys Phe Phe Val His Ser Glu Cys
 100 105 110
 Tyr Val Leu Thr Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Lys
 115 120 125
 Pro Leu Leu Tyr Met Val Thr Thr Ser Pro Gln Ile Cys Ser Leu Leu
 130 135 140
 Met Leu Gly Ser Tyr Val Met Gly Phe Ala Gly Ala Met Val His Thr
 145 150 155 160
 Glu Cys Met Met Lys Leu Ile Phe Cys Asp Ser Asn Val Ile Asn His
 165 170 175
 Tyr Met Cys Asp Ile Phe Pro Leu Leu Gln Leu Ser Cys Ser Ser Thr
 180 185 190
 Xaa Ala Asn Glu Leu Val Met Ser Val Ile Val Gly Thr Val Val Ile
 195 200 205
 Val Ser Ser Leu Ile Ile Leu Ile Ser Tyr Ala Leu Ile Leu Phe Asn
 210 215 220
 Ile Leu His Met Ser Ser Ala Glu Gly Trp Phe Lys Ala Ile Gly Thr
 225 230 235 240
 Cys Gly Ser His Ile Ile Thr Val Gly Leu Phe Tyr Glu Phe Gly Leu
 245 250 255
 Ile Thr His Val Lys Leu Ser Ser Asp Trp Tyr Met Gly Gln Gly Lys
 260 265 270
 Phe Leu Ser Val Phe Tyr Thr Asn Glu Val Pro Met Leu Asn Pro Leu
 275 280 285
 Ile Tyr Ser Leu Arg Asn Lys Asp Val Lys Leu Ala Leu Lys Glu Thr
 290 295 300
 Leu Asn Lys Ile Thr Asn Xaa Val Glu Pro Met Val Leu Pro Xaa Pro
 305 310 315 320
 Leu Ser Asn Cys

<210> 1769
 <211> 331
 <212> PRT
 <213> Unknown (H38g687 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(331)

<223> Xaa = Any Amino Acid

<400> 1769

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Met Arg Xaa Ile Asn Gln Thr Gln Val Ile Glu Phe Leu Leu Leu Gly
 1           5           10           15
Leu Ser Asp Gly Pro His Thr Glu Gln Leu Leu Phe Ile Val Leu Leu
 20           25           30
Gly Val Tyr Leu Val Thr Val Leu Gly Asn Leu Leu Leu Ile Ser Leu
 35           40           45
Val His Val Asp Ser Gln Leu His Thr Pro Met Tyr Phe Phe Leu Cys
 50           55           60
Asn Leu Ser Leu Ala Asp Leu Tyr Phe Ser Thr Asn Ile Leu Pro Gln
 65           70           75           80
Ala Leu Val His Leu Leu Ser Ile Asn Asn Leu Ile Ala Phe Thr Leu
 85           90           95
Ser Leu Thr Gln Leu Leu Phe Phe Leu Ile Phe Gly Cys Thr Gln Cys
100           105           110
Ala Leu Ile Ala Val Met Ser Tyr Asn Pro Tyr Val Ala Ile Cys Asn
115           120           125
Pro Leu His Tyr Pro Asn Ile Met Thr Trp Lys Val Cys Val Gln Leu
130           135           140
Ala Thr Gly Ser Trp Thr Ser Gly Ile Leu Val Ser Val Val Asp Thr
145           150           155           160
Thr Phe Thr Leu Arg Leu Pro Tyr Arg Gly Ser Asn Ser Ile Ala His
165           170           175
Phe Phe Cys Glu Ala Pro Ala Leu Leu Ile Leu Ala Ser Thr Asp Thr
180           185           190
His Ala Ser Glu Met Ala Ile Tyr Leu Thr Gly Val Val Ile Leu Leu
195           200           205
Ile Pro Val Phe Leu Ile Leu Val Ser Tyr Gly Arg Ile Ile Val Thr
210           215           220
Val Val Lys Met Lys Ser Thr Val Gly Ser Leu Lys Ala Phe Ser Thr
225           230           235           240
Cys Gly Ser His Leu Met Val Val Ile Leu Leu Asn Gly Ser Ala Ile
245           250           255
Leu Thr Cys Met Thr Pro Lys Ser Ser Lys Gln Gln Xaa Lys Ser Val
260           265           270
Ser Val Phe Tyr Ala Ile Val Thr Pro Met Leu Asn Pro Leu Ile Tyr
275           280           285
Ser Leu Arg Asn Lys Asp Val Lys Ala Ala Leu Arg Lys Val Ala Thr
290           295           300
Arg Asn Phe Pro Xaa Arg Leu Gly Ile His Thr Asp Ser Glu Leu Arg
305           310           315           320
Glu Pro Phe Gly Phe Leu Leu Pro Lys Thr Cys
325           330

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<210> 1770

<211> 183

<212> PRT

<213> Unknown (H38g688 protein)

<220>

<223> Synthetic construct

<400> 1770

```

Met Glu Lys Ser Asn Asn Ser Thr Leu Phe Ile Leu Leu Gly Phe Ser
 1           5           10           15

```

Gln Asn Lys Asn Ile Glu Val Leu Cys Phe Val Leu Phe Leu Phe Cys
 20 25 30
 Tyr Ile Ala Ile Trp Met Gly Asn Leu Leu Ile Met Ile Ser Ile Thr
 35 40 45
 Cys Thr Gln Leu Ile His Gln Pro Met Tyr Phe Phe Leu Asn Tyr Leu
 50 55 60
 Ser Leu Ser Asp Leu Cys Tyr Thr Ser Thr Val Thr Pro Lys Leu Met
 65 70 75 80
 Val Asp Leu Leu Ala Glu Arg Lys Thr Ile Ser Tyr Asn Asn Cys Met
 85 90 95
 Ile Gln Leu Phe Thr Thr His Phe Phe Gly Gly Ile Glu Ile Phe Ile
 100 105 110
 Leu Thr Gly Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Lys Pro Leu
 115 120 125
 His Tyr Thr Ile Ile Met Ser Arg Gln Lys Cys Asn Thr Ile Ile Ile
 130 135 140
 Val Cys Trp Thr Gly Gly Phe Ile His Ser Ala Ser Gln Phe Leu Leu
 145 150 155 160
 Thr Ile Ser Val Pro Phe Cys Gly Pro Asn Asp Ile Asp His Tyr Ser
 165 170 175
 Arg Asp Val Tyr Pro Leu Leu
 180

<210> 1771
 <211> 224
 <212> PRT
 <213> Unknown (H38g689 protein)

<220>
 <223> Synthetic construct

<221> VARIANT
 <222> (1)...(224)
 <223> Xaa = Any Amino Acid

<400> 1771
 Leu Pro Asp Ile Gly Phe Thr Ser Thr Thr Val Pro Lys Met Ser Val
 1 5 10 15
 Asp Ile Gln Ser His Ser Arg Val Ile Ser Tyr Ala Gly Cys Leu Thr
 20 25 30
 Gln Met Ser Leu Phe Ala Ile Phe Gly Gly Met Glu Glu Arg His Ala
 35 40 45
 Pro Glu Val Met Ala Tyr Asp Leu Phe Val Ala Ile Cys His Leu Leu
 50 55 60
 Tyr Arg Ser Ala Ile Leu Asn Pro Phe Val Arg Gly Phe Leu Asp Leu
 65 70 75 80
 Leu Ser Leu Leu Leu Val Phe Phe Phe Phe Leu Ile Ser Leu Leu Asp
 85 90 95
 Ser Gln Leu His Asn Leu Ile Ala Leu Gln Met Thr Cys Phe Lys Asp
 100 105 110
 Val Glu Ile Pro Asn Phe Phe Trp Glu Pro Ser Gln Leu Pro His Leu
 115 120 125
 Ala Cys Cys Asp Thr Phe Thr Arg Asn Asn Asn Met Tyr Phe Pro Ala
 130 135 140
 Ala Val Phe Gly Phe Leu Pro Ile Ser Gly Thr Leu Phe Ser Tyr Cys
 145 150 155 160
 Lys Ile Val Ser Ser Ile Leu Arg Val Ser Ser Ser Gly Gly Lys Tyr
 165 170 175
 Lys Pro Ser Ser Thr Cys Gly Ser His Leu Ser Val Val Cys Xaa Phe
 180 185 190
 Tyr Gly Ala Gly Val Gly Gly Tyr Leu Gly Ser Asp Val Ser Ser Phe

195 200 205
 Pro Arg Lys Gly Ala Val Ala Ser Val Thr Tyr Tyr Thr Val Val Thr
 210 215 220

<210> 1772
 <211> 215
 <212> PRT
 <213> Unknown (H38g690 protein)

<220>
 <223> Synthetic construct

<400> 1772
 Met Asp Val Arg Leu Ile Cys Thr Thr Val Pro Lys Met Ala Phe Asn
 1 5 10 15
 Tyr Leu Ser Gly Ser Lys Ser Ile Ser Met Ala Gly Cys Ala Thr Gln
 20 25 30
 Ile Phe Phe Cys Val Ser Leu Leu Gly Ser Glu Cys Phe Leu Leu Ala
 35 40 45
 Val Met Ser Tyr Asp Cys Tyr Ile Ala Ile Cys His Pro Leu Arg Tyr
 50 55 60
 Thr Asn Leu Met Arg Pro Lys Ile Cys Arg Leu Met Thr Ala Phe Ser
 65 70 75 80
 Trp Ile Leu Gly Ser Thr Asp Gly Ile Ile Tyr Ala Val Ala Thr Phe
 85 90 95
 Ser Phe Ser Tyr Cys Gly Ser Arg Glu Ile Ala His Phe Phe Cys Glu
 100 105 110
 Leu Pro Ser Leu Leu Ile Leu Ser Cys Asn Asp Thr Ser Ile Phe Glu
 115 120 125
 Lys Val Ile Phe Ile Cys Ser Ile Val Met Leu Val Phe Pro Val Ala
 130 135 140
 Ile Ile Ile Ala Ser Tyr Ala Gly Val Ile Leu Ala Val Ile His Met
 145 150 155 160
 Gly Ser Gly Glu Gly Arg Arg Lys Ala Phe Thr Thr Cys Ser Ser His
 165 170 175
 Leu Met Val Val Gly Met Phe Tyr Gly Ala Gly Leu Phe Met Tyr Ile
 180 185 190
 Gln Pro Thr Ser Asp Arg Ser Pro Thr Gln Asp Lys Leu Val Ser Val
 195 200 205
 Phe Tyr Thr Ile Leu Thr Pro
 210 215

<210> 1773
 <211> 127
 <212> PRT
 <213> Unknown (H38g691 protein)

<220>
 <223> Synthetic construct

<221> VARIANT
 <222> (1)...(127)
 <223> Xaa = Any Amino Acid

<400> 1773
 Asn Leu Leu Pro Val Trp Thr Pro Gly Ser Arg Val Pro Ser Xaa Ser
 1 5 10 15
 Gln Ile Ser Val Ser Glu Lys Gln Gly Met Ser Phe Pro Lys Lys Leu
 20 25 30
 Phe Gln Asn His Lys Leu Phe Leu Leu Phe Ala Gly Met Asn Val Phe
 35 40 45

Leu Gln Thr Val Met Ala Tyr Asp His Phe Val Ala Ile Cys His Pro
 50 55 60
 Leu His Tyr Arg Val Ile Met Asn Pro Gly Ile Phe Gly Leu Trp Val
 65 70 75 80
 Leu Val Ser Trp Ser Met Ser Ala Leu Asn Ser Ser Leu Gln Ser Arg
 85 90 95
 Met Val Leu Gln Leu Ser Phe Cys Thr Asn Leu Glu Ile Pro His Ile
 100 105 110
 Phe Phe Cys Glu Leu Asn Gln Leu Ile Leu Leu Ala Cys Ser Asn
 115 120 125

<210> 1774
 <211> 216
 <212> PRT
 <213> Unknown (H38g692 protein)

<220>
 <223> Synthetic construct

<221> VARIANT
 <222> (1)...(216)
 <223> Xaa = Any Amino Acid

<400> 1774
 Phe Val Asp Phe Cys Tyr Ser Thr Thr Ile Thr Pro Lys Leu Leu Glu
 1 5 10 15
 Asn Leu Val Val Glu Asp Arg Thr Ile Ser Phe Thr Gly Cys Ile Met
 20 25 30
 Gln Leu Phe Phe Val Cys Ile Phe Val Val Thr Glu Thr Phe Met Leu
 35 40 45
 Ala Val Met Ala Tyr Asp Arg Tyr Val Ala Val Cys Asn Pro Leu Leu
 50 55 60
 Tyr Thr Val Ala Met Tyr Gln Arg Leu Cys Ser Leu Leu Val Ala Thr
 65 70 75 80
 Ser Tyr Cys Trp Gly Ile Val Cys Ser Leu Thr Leu Thr Xaa Phe Leu
 85 90 95
 Leu Glu Leu Ser Phe Arg Gly Asn Asn Ile Ile Asn Asn Phe Val Cys
 100 105 110
 Glu His Ala Ala Val Val Ala Val Ser Trp Ser Asp Pro Cys Val Ser
 115 120 125
 Gln Glu Ile Thr Leu Val Ser Ala Thr Phe Asn Glu Ile Ser Gly Leu
 130 135 140
 Val Ile Ile Leu Thr Pro Tyr Ala Phe Ile Phe Ile Thr Val Met Lys
 145 150 155 160
 Thr Pro Ser Thr Gly Gly Arg Lys Lys Ala Phe Ser Thr Ser Ala Ser
 165 170 175
 His Leu Thr Ala Ile Thr Ile Phe His Gly Thr Ile Leu Phe Leu Tyr
 180 185 190
 Cys Val Pro Asn Ser Lys Ser Ser Trp Leu Met Val Lys Val Ala Ser
 195 200 205
 Val Leu Tyr Thr Val Val Ile Pro
 210 215

<210> 1775
 <211> 215
 <212> PRT
 <213> Unknown (H38g693 protein)

<220>
 <223> Synthetic construct

<221> VARIANT

<222> (1)...(215)

<223> Xaa = Any Amino Acid

<400> 1775

```

Leu Pro Asp Ile Gly Phe Thr Leu Ala Thr Val Pro Lys Met Ile Val
 1           5           10           15
Asp Met Gln Ser His Ser Arg Ile Ile Ser His Ala Gly Cys Leu Thr
          20           25           30
Gln Ile Pro Phe Phe Val Leu Phe Val Cys Ile Asp Asp Met Leu Leu
          35           40           45
Thr Val Met Ala Tyr Asp Xaa Phe Val Ala Ile Cys His Pro Leu His
          50           55           60
Tyr Pro Val Ile Met Asn Pro His Leu Cys Val Phe Leu Val Leu Met
65           70           75           80
Ser Ile Phe Leu Ser Leu Leu Asp Ser Xaa Leu His Asn Ser Val Leu
          85           90           95
Leu Gln Phe Thr Cys Phe Lys Asn Val Glu Ile Ser Asn Phe Phe Cys
          100          105          110
Asp Xaa Ser Gln Leu Leu Asn Leu Ala Cys Ser Asp Phe Ile Ser Asn
          115          120          125
Ile Phe Ile Arg Leu Asp Ser Thr Ile Phe Gly Phe Leu Pro Ile Ser
          130          135          140
Gly Ile Leu Leu Ser Tyr Lys Ile Val Pro Ser Ile Leu Arg Ile
145          150          155          160
Pro Leu Ser Asp Gly Lys Tyr Lys Ala Phe Ser Thr Cys Gly Ser His
          165          170          175
Leu Ala Ile Val Cys Leu Phe Tyr Gly Thr Gly Ile Gly Met Tyr Leu
          180          185          190
Thr Ser Ala Val Ser Pro Ala Pro Arg Asn Gly Val Val Ala Ser Val
          195          200          205
Leu Tyr Ala Met Val Thr Pro
210          215

```

<210> 1776

<211> 217

<212> PRT

<213> Unknown (H38g694 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(217)

<223> Xaa = Any Amino Acid

<400> 1776

```

Leu Pro Asp Ile Gly Phe Thr Pro Thr Thr Val Pro Lys Met Ile Val
 1           5           10           15
Asp Ile Gln Ser His Ser Arg Val Ile Tyr Ala Gly Cys Leu Thr Val
          20           25           30
Met Ser Leu Phe Ala Ile Phe Gly Met Glu Glu Thr Leu Leu Leu
          35           40           45
Asn Val Met Ala Tyr Val Arg Phe Val Ala Ile Cys His Pro Leu Tyr
          50           55           60
His Ser Ala Ile Met Asn Pro Cys Phe Cys Gly Phe Leu Leu Leu Leu
65           70           75           80
Ser Phe Phe Phe Leu Gly Leu Leu Asp Ala Gln Leu His Asn Met Ile
          85           90           95
Ala Leu Gln Met Thr Cys Phe Lys Asp Val Glu Ile Pro Asn Phe Phe
          100          105          110

```

Cys Asp Pro Ser Gln Leu Pro His Leu Ala Cys Cys Asp Thr Phe Thr
 115 120 125
 Asn Asn Ile Ile Met Tyr Phe Pro Ala Ala Ile Phe Gly Phe Leu Pro
 130 135 140
 Ile Ser Gly Thr Leu Phe Ser Tyr Tyr Glu Ile Val Ser Ser Ile Leu
 145 150 155 160
 Arg Val Ser Ser Xaa Gly Gly Lys Tyr Lys Ala Phe Ala Thr Cys Gly
 165 170 175
 Ser His Leu Ser Val Val Cys Xaa Phe Tyr Gly Thr Gly Val Gly Gly
 180 185 190
 Tyr Leu Ser Ser Asp Val Ser Ser Ser Pro Arg Lys Thr Ala Val Ala
 195 200 205
 Ser Val Met Tyr Ala Val Val Thr Pro
 210 215

<210> 1777

<211> 230

<212> PRT

<213> Unknown (H38g695 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(230)

<223> Xaa = Any Amino Acid

<400> 1777

Leu Pro Asp Ile Gly Phe Thr Ser Thr Thr Val Ala Lys Met Ile Val
 1 5 10 15
 Asp Ile Gln Ser His Ser Arg Val Ile Ser Tyr Ala Gly Cys Leu Thr
 20 25 30
 Gln Met Ser Leu Phe Ala Ile Phe Gly Gly Met Glu Glu Ser Met Leu
 35 40 45
 Leu Ser Val Met Ala Tyr Asp Arg Phe Val Ala Ile Cys His Pro Leu
 50 55 60
 Tyr Arg Ser Ala Ile Leu Ser Arg Asp Ser Val Pro Ser Xaa Ile Cys
 65 70 75 80
 Cys Leu Cys Phe Val Leu Phe Cys Phe Val Leu Phe Cys Phe Val Phe
 85 90 95
 Leu Ser Leu Leu Asp Ser Gln Leu His Asn Leu Ile Ala Leu Gln Met
 100 105 110
 Thr Cys Phe Lys Asp Val Glu Ile Pro Asn Phe Leu Trp Glu Pro Ser
 115 120 125
 Gln Leu Pro His Leu Ala Cys Cys Asp Thr Phe Thr Arg Asn Ile Asn
 130 135 140
 Met Tyr Phe Pro Ala Ala Val Phe Gly Phe Leu Pro Ile Ser Gly Pro
 145 150 155 160
 Phe Leu Leu Gln Trp Ser Lys Ile Val Ser Ser Thr Leu Arg Val Ser
 165 170 175
 Ser Ser Gly Gly Lys Tyr Lys Ala Phe Ser Thr Cys Gly Ser His Leu
 180 185 190
 Ser Val Val Cys Xaa Phe Cys Gly Thr Gly Val Gly Gly Tyr Leu Gly
 195 200 205
 Ser Asp Val Ser Ser Ser Pro Arg Lys Ser Ala Val Ala Ser Val Met
 210 215 220
 Tyr Thr Val Val Thr Pro
 225 230

<210> 1778

<211> 313

<212> PRT

<213> Unknown (H38g696 protein)

<220>

<223> Synthetic construct

<400> 1778

```

Met Leu Ala Arg Asn Asn Ser Leu Val Thr Glu Phe Ile Leu Ala Gly
 1           5           10           15
Leu Thr Asp Arg Pro Glu Phe Arg Gln Pro Leu Phe Phe Leu Phe Leu
 20           25           30
Val Ile Tyr Ile Val Thr Met Val Gly Asn Leu Gly Leu Ile Thr Leu
 35           40           45
Phe Gly Leu Asn Ser His Leu His Thr Pro Met Tyr Tyr Phe Leu Phe
 50           55           60
Asn Leu Ser Phe Ile Asp Leu Cys Tyr Ser Ser Val Phe Thr Pro Lys
 65           70           75           80
Met Leu Met Asn Phe Val Ser Lys Lys Asn Ile Ile Ser Asn Val Gly
 85           90           95
Cys Met Thr Arg Leu Phe Phe Phe Leu Phe Phe Val Ile Ser Glu Cys
100           105           110
Tyr Met Leu Thr Ser Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Asn
115           120           125
Pro Leu Leu Tyr Lys Val Thr Met Ser His Gln Val Cys Ser Met Leu
130           135           140
Thr Phe Ala Ala Tyr Ile Met Gly Leu Ala Gly Ala Thr Ala His Thr
145           150           155           160
Gly Cys Met Leu Arg Leu Thr Phe Cys Ser Ala Asn Ile Ile Asn His
165           170           175
Tyr Leu Cys Asp Ile Leu Pro Leu Leu Gln Leu Ser Cys Thr Ser Thr
180           185           190
Tyr Val Asn Glu Val Val Val Leu Ile Val Val Gly Thr Asn Ile Thr
195           200           205
Val Pro Ser Cys Thr Ile Leu Ile Ser Tyr Val Phe Ile Val Thr Ser
210           215           220
Ile Leu His Ile Lys Ser Thr Gln Gly Arg Ser Lys Ala Phe Ser Thr
225           230           235           240
Cys Ser Ser His Val Ile Ala Leu Ser Leu Phe Phe Gly Ser Ala Ala
245           250           255
Phe Met Tyr Ile Lys Tyr Ser Ser Gly Ser Met Glu Gln Gly Lys Val
260           265           270
Ser Ser Val Phe Tyr Thr Asn Val Val Pro Met Leu Asn Pro Leu Ile
275           280           285
Tyr Ser Leu Arg Asn Lys Asp Val Lys Val Ala Leu Arg Lys Ala Leu
290           295           300
Ile Lys Ile Gln Arg Arg Asn Ile Phe
305           310

```

<210> 1779

<211> 308

<212> PRT

<213> Unknown (H38g697 protein)

<220>

<223> Synthetic construct

<400> 1779

```

Met Thr Met Glu Asn Tyr Ser Met Ala Ala Gln Phe Val Leu Asp Gly
 1           5           10           15
Leu Thr Gln Gln Ala Glu Leu Gln Leu Pro Leu Phe Leu Leu Phe Leu
 20           25           30

```

Gly Ile Tyr Val Val Thr Val Val Gly Asn Leu Gly Met Ile Leu Leu
 35 40 45
 Ile Ala Val Ser Pro Leu Leu His Thr Pro Met Tyr Tyr Phe Leu Ser
 50 55 60
 Ser Leu Ser Phe Val Asp Phe Cys Tyr Ser Ser Val Ile Thr Pro Lys
 65 70 75 80
 Met Leu Val Asn Phe Leu Gly Lys Lys Asn Thr Ile Leu Tyr Ser Glu
 85 90 95
 Cys Met Val Gln Leu Phe Phe Phe Val Val Phe Val Val Ala Glu Gly
 100 105 110
 Tyr Leu Leu Thr Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Ser
 115 120 125
 Pro Leu Leu Tyr Asn Ala Ile Met Ser Ser Trp Val Cys Ser Leu Leu
 130 135 140
 Val Leu Ala Ala Phe Phe Leu Gly Phe Leu Ser Ala Leu Thr His Thr
 145 150 155 160
 Ser Ala Met Met Lys Leu Ser Phe Cys Lys Ser His Ile Ile Asn His
 165 170 175
 Tyr Phe Cys Asp Val Leu Pro Leu Leu Asn Leu Ser Cys Ser Asn Thr
 180 185 190
 His Leu Asn Glu Leu Leu Leu Phe Ile Ile Ala Gly Phe Asn Thr Leu
 195 200 205
 Val Pro Thr Leu Ala Val Ala Val Ser Tyr Ala Phe Ile Leu Tyr Ser
 210 215 220
 Ile Leu His Ile Arg Ser Ser Glu Gly Arg Ser Lys Ala Phe Gly Thr
 225 230 235 240
 Cys Ser Ser His Leu Met Ala Val Val Ile Phe Phe Gly Ser Ile Thr
 245 250 255
 Phe Met Tyr Phe Lys Pro Pro Ser Ser Asn Ser Leu Asp Gln Glu Lys
 260 265 270
 Val Ser Ser Val Phe Tyr Thr Thr Val Ile Pro Met Leu Asn Pro Leu
 275 280 285
 Ile Tyr Ser Leu Arg Asn Lys Asp Val Lys Lys Ala Leu Arg Lys Val
 290 295 300
 Leu Val Gly Lys
 305

<210> 1780

<211> 328

<212> PRT

<213> Unknown (H38g698 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(328)

<223> Xaa = Any Amino Acid

<400> 1780

Met Ala Pro Gly Asn Gly Ser Phe Val Thr Glu Phe Ile Leu Ala Gly
 1 5 10 15
 Leu Thr His Gln Pro Asp Leu Gln Ser Pro Leu Phe Phe Leu Phe Leu
 20 25 30
 Val Ile Tyr Val Val Thr Leu Leu Gly Asn Leu Gly Leu Val Thr Leu
 35 40 45
 Ile Gly Leu Asn Ser His Leu His Thr Pro Met Tyr Phe Phe Leu Phe
 50 55 60
 Asn Leu Ser Phe Ile Asp Leu Cys Tyr Ser Ser Val Phe Thr Pro Lys
 65 70 75 80
 Met Leu Met Asn Phe Ile Ser Glu Lys Asn Ile Ile Ser Phe Lys Gly

```
<210> 1781
<211> 314
<212> PRT
<213> Unknown (H38a699 protein)
```

| | | | | | | | | | | | | | | | |
|------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| <400> 1781 | | | | | | | | | | | | | | | |
| Met | Lys | Pro | Gly | Asn | Glu | Thr | Gln | Ile | Ser | Gln | Phe | Leu | Leu | Leu | Gly |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |
| Leu | Ser | Glu | Glu | Pro | Glu | Leu | Gln | Pro | Phe | Leu | Phe | Gly | Leu | Phe | Leu |
| | | | 20 | | | | | 25 | | | | | 30 | | |
| Ser | Met | Tyr | Leu | Val | Thr | Val | Leu | Gly | Asn | Leu | Leu | Ile | Ile | Leu | Ala |
| | | 35 | | | | | 40 | | | | | 45 | | | |
| Thr | Ile | Ser | Asp | Ser | His | Leu | His | Thr | Pro | Met | Tyr | Phe | Phe | Leu | Ser |
| | 50 | | | | | 55 | | | | | 60 | | | | |
| Asn | Leu | Ser | Phe | Ala | Asp | Ile | Cys | Phe | Val | Ser | Thr | Thr | Val | Pro | Lys |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |
| Met | Leu | Val | Asn | Ile | Gln | Thr | Gln | Ser | Arg | Val | Ile | Thr | Tyr | Ala | Asp |
| | | | 85 | | | | | | 90 | | | | | 95 | |
| Cys | Ile | Thr | Gln | Met | Cys | Phe | Phe | Ile | Leu | Phe | Val | Val | Leu | Asp | Ser |
| | | | 100 | | | | | 105 | | | | | 110 | | |
| Leu | Leu | Leu | Thr | Val | Met | Ala | Tyr | Asp | Arg | Phe | Val | Ala | Ile | Cys | His |
| | | | 115 | | | | 120 | | | | | 125 | | | |
| Pro | Leu | His | Tyr | Thr | Val | Ile | Met | Asn | Ser | Trp | Leu | Cys | Gly | Leu | Leu |
| | 130 | | | | | 135 | | | | | 140 | | | | |
| Val | Leu | Val | Ser | Trp | Ile | Val | Ser | Ile | Leu | Tyr | Ser | Leu | Leu | Gln | Ser |
| 145 | | | | | 150 | | | | | 155 | | | | | 160 |

Ile Met Ala Leu Gln Leu Ser Phe Cys Thr Glu Leu Lys Ile Pro His
 165 170 175
 Phe Phe Cys Glu Leu Asn Gln Val Ile His Leu Ala Cys Ser Asp Thr
 180 185 190
 Phe Ile Asn Asp Met Met Met Asn Phe Thr Ser Val Leu Leu Gly Gly
 195 200 205
 Gly Cys Leu Ala Gly Ile Leu Tyr Thr Tyr Phe Lys Ile Leu Cys Cys
 210 215 220
 Ile Cys Ser Ile Ser Ser Ala Gln Gly Met Asn Lys Ala Leu Ser Thr
 225 230 235 240
 Cys Ala Ser His Leu Ser Val Val Ser Leu Phe Tyr Cys Thr Gly Val
 245 250 255
 Gly Val Tyr Leu Ser Ser Ala Ala Thr His Asn Ser Leu Ser Asn Ala
 260 265 270
 Ala Ala Ser Val Met Tyr Thr Val Val Thr Ser Met Leu Asn Pro Phe
 275 280 285
 Ile Tyr Ser Leu Arg Asn Lys Asp Ile Asn Arg Ala Leu Asn Arg Phe
 290 295 300
 Phe Arg Glu Gln Lys Gln Glu Gly His Phe
 305 310

<210> 1782

<211> 324

<212> PRT

<213> Unknown (H38g700 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(324)

<223> Xaa = Any Amino Acid

<400> 1782

His Thr Glu Pro Arg Asn Leu Thr Gly Val Xaa Glu Phe Leu Leu Leu
 1 5 10 15
 Gly Leu Ser Glu Asp Pro Glu Leu Gln Ser Val Leu Ala Leu Leu Ser
 20 25 30
 Leu Ser Leu Ser Leu Asn Leu Val Thr Val Leu Arg Asn Leu Leu Ser
 35 40 45
 Ile Leu Ala Val Ser Ser Asp Ser Pro Leu His Thr Pro Met Tyr Phe
 50 55 60
 Phe Leu Ser Asn Leu Cys Trp Ala Asp Ile Gly Leu Thr Ser Ala Thr
 65 70 75 80
 Val Pro Lys Val Ile Leu Asp Met Gln Ser His Ser Arg Val Ile Ser
 85 90 95
 His Val Gly Cys Leu Thr Gln Met Ser Phe Leu Val Leu Phe Ala Cys
 100 105 110
 Ile Glu Gly Met Leu Leu Thr Val Met Ala Tyr Gly Cys Phe Val Ala
 115 120 125
 Ile Cys Arg Pro Leu His Tyr Pro Val Ile Val Asn Pro His Leu Cys
 130 135 140
 Val Phe Phe Val Leu Val Ser Phe Phe Leu Asn Leu Leu Asp Ser Gln
 145 150 155 160
 Leu His Ser Trp Ile Val Leu Gln Phe Thr Ile Ile Lys Asn Val Glu
 165 170 175
 Ile Ser Asn Phe Phe Cys Asp Pro Ser Gln Leu Leu Asn Leu Ala Cys
 180 185 190
 Ser Asp Ser Val Ile Asn Ser Ile Phe Ile Tyr Phe Asp Ser Thr Met
 195 200 205
 Phe Gly Phe Leu Pro Ile Ser Gly Ile Leu Leu Ser Tyr Tyr Lys Ile

| | | |
|---|-----|-----|
| 210 | 215 | 220 |
| Val Pro Ser Ile Leu Arg Met Ser Ser Ser Asp Gly Lys Tyr Lys Ala | | |
| 225 | 230 | 235 |
| Phe Ser Thr Tyr Gly Ser His Leu Gly Val Val Cys Trp Phe Tyr Gly | | 240 |
| | 245 | 250 |
| Thr Val Ile Gly Met Tyr Leu Ala Ser Ala Val Ser Pro Pro Pro Arg | | 255 |
| | 260 | 265 |
| Asn Gly Val Val Ala Ser Val Met Xaa Ala Val Val Thr Pro Met Leu | | 270 |
| | 275 | 280 |
| Asn Leu Phe Ile Tyr Ser Leu Arg Asn Arg Asp Ile Gln Ser Ala Leu | | 285 |
| | 290 | 295 |
| Arg Arg Leu Arg Ser Arg Thr Val Glu Ser Pro Xaa Ser Val Pro Ser | | 300 |
| 305 | 310 | 315 |
| Phe Phe Leu Cys | | 320 |

<210> 1783

<211> 339

<212> PRT

<213> Unknown (H38g701 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(339)

<223> Xaa = Any Amino Acid

<400> 1783

| | | |
|---|-----|-----|
| Pro Ile Glu Gln Gly Asn Tyr Thr Arg Val Lys Glu Phe Phe Phe Gln | | |
| 1 | 5 | 10 |
| Gly Leu Thr Gln Ser Gln Glu Leu Ser Leu Val Leu Phe Leu Phe Leu | | 15 |
| | 20 | 25 |
| Phe Phe Val Tyr Ser Ala Thr Val Leu Gly Asn Leu Leu Ile Met Val | | 30 |
| | 35 | 40 |
| Val Val Thr Cys Glu Ser Arg Leu His Thr Pro Thr Tyr Phe Leu Leu | | 45 |
| | 50 | 55 |
| Cys Asn Leu Ser Val Leu Val Ile Cys Phe Ser Ser Ile Thr Ala Arg | | 60 |
| 65 | 70 | 75 |
| Lys Val Leu Ile Asp Leu Ser Ser Arg Lys Thr Ile Ser Phe Asn Gly | | 80 |
| | 85 | 90 |
| Cys Met Thr Gln Met Phe Phe Phe His Leu Leu Gly Gly Thr Asp Val | | 95 |
| | 100 | 105 |
| Phe Ser Leu Phe Val Met Ala Phe Asp Gln Tyr Met Ala Ile Phe Lys | | 110 |
| | 115 | 120 |
| Pro Leu His Cys Val Thr Ile Val Ser Arg Gly Gln Cys Ile Pro Tyr | | 125 |
| | 130 | 135 |
| Ile Val Ser Arg Gly Arg Glu Xaa Gly Ala Gly Leu Ile Met Ala Ser | | 140 |
| 145 | 150 | 155 |
| Trp Val Gly Gly Phe Val His Ser Ile Val Gln Val Phe Leu Leu Leu | | 160 |
| | 165 | 170 |
| Pro Leu Pro Phe Cys Gly His His Met Ile Asp Gly Phe Tyr Cys Asp | | 175 |
| | 180 | 185 |
| Val Pro Gln Val Leu Lys Leu Ala Cys Thr His Thr Phe Ala Leu Glu | | 190 |
| | 195 | 200 |
| Val Leu Met Ile Ser Asn Asn Gly Leu Ile Ser Met Leu Trp Phe Ile | | 205 |
| | 210 | 215 |
| Phe Leu Leu Ile Ser Tyr Thr Val Ile Leu Met Met Leu Arg Ser His | | 220 |
| 225 | 230 | 235 |
| Thr Glu Glu Gly Arg Arg Lys Ala Ile Ala Thr Cys Thr Ser His Ile | | 240 |
| | 245 | 250 |
| | | 255 |

Thr Val Val Thr Leu His Phe Val Pro Cys Ile Tyr Val His Ala Gln
 260 265 270
 Pro Phe Thr Ala Leu Pro Thr Asp Arg Ala Val Ser Ile Thr Phe Thr
 275 280 285
 Val Ile Ile Pro Val Leu Asn Pro Met Ile Tyr Thr Leu Arg Asn Gln
 290 295 300
 Glu Met Lys Ser Ala Leu Arg Arg Arg Lys Lys Arg Pro Ser Gly Lys
 305 310 315 320
 Gly Xaa Met Leu Arg Ser Pro Asp Trp Lys Ile Arg Thr Glu Lys Tyr
 325 330 335
 Phe Phe Ile

<210> 1784

<211> 335

<212> PRT

<213> Unknown (H38g702 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(335)

<223> Xaa = Any Amino Acid

<400> 1784

Ser Thr Tyr Pro Gln Asn Leu Thr Asp Val Ser Leu Phe Leu Leu Leu
 1 5 10 15
 Gly Ser Ser Glu Asp Pro Glu Gln Gln Pro Val Leu Ala Gly Leu Phe
 20 25 30
 Leu Ser Met Cys Leu Val Thr Val Leu Gly Asn Leu Leu Ile Ile Leu
 35 40 45
 Ala Val Ser Pro Asp Ser His Leu His Thr Pro Met Tyr Leu Phe Leu
 50 55 60
 Ser Asn Leu Ser Leu Pro Asp Ile Gly Phe Thr Ser Ser Met Val Pro
 65 70 75 80
 Lys Met Ile Val Asp Ile Xaa Ser His Ser Arg Leu Ile Ser Xaa Ala
 85 90 95
 Gly Cys Leu Thr Pro Met Ser Leu Phe Ala Ile Phe Gly Gly Met Glu
 100 105 110
 Glu Asn Met Leu Leu Ser Val Ile Ala Tyr Asp Pro Phe Val Ala Ile
 115 120 125
 Cys His Pro Leu Tyr His Ser Ala Ile Met Asn Pro Cys Phe Cys Gly
 130 135 140
 Phe Leu Val Leu Leu Ser Phe Phe Ser Gln Ser Leu Leu Asp Ala Gln
 145 150 155 160
 Val His Asn Leu Ile Ala Leu Gln Met Thr Cys Phe Lys Asp Val Glu
 165 170 175
 Ile Pro Asn Phe Phe Trp Glu Pro Ser Gln Leu Pro His Leu Ala Cys
 180 185 190
 Cys Asp Thr Phe Thr Asn Asn Ile Ile Met Tyr Ser Pro Ala Ala Ile
 195 200 205
 Phe Gly Phe Leu Pro Ile Ser Gly Thr Leu Phe Ser Tyr Tyr Lys Ile
 210 215 220
 Val Ser Ser Ile Leu Arg Val Ser Ser Ser Gly Gly Lys Tyr Lys Ala
 225 230 235 240
 Cys Ser Thr Cys Gly Ser His Leu Ser Val Val Cys Xaa Phe Tyr Gly
 245 250 255
 Thr Gly Phe Trp Gly Tyr Leu Ser Ser Asp Val Ser Ser Ser Pro Gly
 260 265 270
 Lys Ala Ala Val Ala Ser Val Met Tyr Thr Val Val Thr Pro Met Pro

| | | |
|---|-----|-----|
| 275 | 280 | 285 |
| Asn Pro Phe Ile Tyr Ser Leu Arg Asn Arg Asp Ile Lys Ser Val Leu | | |
| 290 | 295 | 300 |
| Arg Arg Pro His Gly Ser Thr Val Xaa Cys Gln Tyr Leu Leu Ile Cys | | |
| 305 | 310 | 315 |
| Ser Met Pro Phe Val Val Trp Val Lys Lys Gly Ser Lys Val Lys | | |
| 325 | 330 | 335 |

<210> 1785

<211> 315

<212> PRT

<213> Unknown (H38g703 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(315)

<223> Xaa = Any Amino Acid

<400> 1785

| | |
|---|--|
| Met Lys Asn Cys Thr Arg Val Lys Glu Phe Ile Phe Leu Gly Leu Thr | |
| 1 5 10 15 | |
| Gln Asn Gly Asp Thr Arg Leu Val Leu Phe Leu Phe Leu Leu Val | |
| 20 25 30 | |
| Tyr Met Thr Thr Leu Leu Gly Asn Leu Leu Ile Met Val Thr Val Thr | |
| 35 40 45 | |
| Cys Glu Ser Cys Leu His Met Pro Met Tyr Phe Leu Leu His Asn Leu | |
| 50 55 60 | |
| Ser Ile Ala Asp Ile Cys Phe Tyr Ser Ile Thr Glu Pro Lys Val Leu | |
| 65 70 75 80 | |
| Val Asp Leu Leu Ser Glu Arg Lys Thr Ile Ser Phe Asn Gly Cys Phe | |
| 85 90 95 | |
| Thr Gln Met Phe Leu Phe His Leu Ile Gly Gly Val Asp Ala Phe Ser | |
| 100 105 110 | |
| Leu Ser Val Met Ala Leu Asp Gln Tyr Val Ala Ile Ser Lys Ser Leu | |
| 115 120 125 | |
| His Tyr Ala Thr Ile Met Ser Arg Asp Arg Cys Ile Gly Leu Thr Val | |
| 130 135 140 | |
| Ala Ala Trp Leu Gly Gly Phe Val His Ser Ile Val Gln Ile Thr Leu | |
| 145 150 155 160 | |
| Leu Leu Pro Leu Pro Phe Cys Gly Pro Asn Val Leu Asp Thr Phe Tyr | |
| 165 170 175 | |
| Cys Asp Val Pro Gln Val Leu Lys Leu Ala His Thr Asp Ile Phe Ile | |
| 180 185 190 | |
| Leu Glu Leu Leu Met Ile Ser Asn Asn Gly Leu Leu Thr Thr Leu Trp | |
| 195 200 205 | |
| Phe Phe Leu Leu Leu Val Ser Tyr Met Val Ile Leu Ser Leu Leu Lys | |
| 210 215 220 | |
| Ser Gln Ala Gly Xaa Gly Arg Arg Lys Val Ile Ser Thr Cys Thr Ser | |
| 225 230 235 240 | |
| His Ile Thr Val Val Thr Leu His Phe Val Pro Cys Ile Tyr Val Tyr | |
| 245 250 255 | |
| Ala Arg Pro Phe Thr Ala Leu Pro Thr Asp Lys Ala Ile Ser Val Thr | |
| 260 265 270 | |
| Phe Thr Val Ile Ser Pro Leu Leu Asn Pro Leu Ile Tyr Thr Leu Arg | |
| 275 280 285 | |
| Asn His Glu Met Lys Ser Thr Met Lys Arg Arg Arg Leu Xaa Pro Ser | |
| 290 295 300 | |
| Asp Arg Lys Xaa Thr Ser Ala Ser Leu Leu Leu | |
| 305 310 315 | |

<210> 1786
 <211> 321
 <212> PRT
 <213> Unknown (H38g704 protein)

<220>
 <223> Synthetic construct

<221> VARIANT
 <222> (1)...(321)
 <223> Xaa = Any Amino Acid

<400> 1786
 His Thr Glu Pro Arg Asn Leu Thr Gly Val Xaa Lys Val Leu Leu Gly
 1 5 10 15
 Ser Leu Xaa Glu Asp Pro Glu Leu Gln Pro Ile Leu Ala Gly Leu Ser
 20 25 30
 Leu Ser Met Tyr Leu Val Thr Val Leu Arg Asn Val Leu Ile Ile Leu
 35 40 45
 Ala Val Ser Ser Asp Ser His Leu His Thr Pro Met Tyr Phe Phe Leu
 50 55 60
 Ser Ser Leu Cys Trp Ala Asp Ile Gly Phe Thr Ser Ala Thr Val Pro
 65 70 75 80
 Lys Met Thr Val Asp Met Gln Ser His Ser Arg Val Ile Ser Tyr Val
 85 90 95
 Ser Cys Leu Thr Gln Ile Ser Phe Leu Val Leu Phe Ala Cys Met Glu
 100 105 110
 Asp Met Leu Thr Val Met Ala Tyr Asp Arg Val Val Ala Ile Cys His
 115 120 125
 Pro Leu His Tyr Pro Val Ile Met Asn Pro His Leu Arg Val Phe Leu
 130 135 140
 Val Leu Leu Ser Phe Phe Leu Ser Leu Leu Asp Ser Gln Leu His Ser
 145 150 155 160
 Trp Ile Val Leu Gln Phe Thr Leu Phe Lys Asn Val Glu Asn Ser Ser
 165 170 175
 Phe Val Cys Asp Pro Ser Gln Leu Leu Asn Leu Ala Cys Ser Asp Ser
 180 185 190
 Val Ile Asn Ser Ile Phe Ile Tyr Phe Asp Ser Thr Met Phe Gly Phe
 195 200 205
 Leu Pro Ile Ser Gly Ile Leu Ser Tyr Tyr Lys Ile Val Pro Ser
 210 215 220
 Ile Leu Arg Met Ser Ser Ser Asp Gly Lys Tyr Lys Ala Phe Ser Thr
 225 230 235 240
 Tyr Gly Ser Gln Leu Ala Ala Leu Cys Xaa Phe Tyr Gly Thr Gly Ile
 245 250 255
 Gly Met Tyr Leu Thr Ser Ala Val Ala Leu Pro Pro Arg Asn Gly Val
 260 265 270
 Val Ala Ser Val Met Xaa Ala Val Val Thr Pro Met Leu Asn Phe Phe
 275 280 285
 Ile Tyr Ser Leu Arg Asn Arg Asp Ile Gln Ser Ala Leu Arg Arg Leu
 290 295 300
 Arg Ser Arg Thr Val Glu Ser Pro Xaa Ser Val Pro Ser Phe Phe Leu
 305 310 315 320
 Cys

<210> 1787
 <211> 318
 <212> PRT
 <213> Unknown (H38g705 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(318)

<223> Xaa = Any Amino Acid

<400> 1787

```

Lys Gln Gln Glu Asn Gly Thr Cys Leu Val Thr Glu Phe Leu Met Met
 1           5           10           15
Gly Phe Ser Asn Leu Pro His Leu Arg Asn Thr Leu Phe Thr Leu Phe
          20           25           30
Phe Leu Thr Tyr Leu Val Thr Leu Gly Gly Asn Val Thr Ile Ile Thr
          35           40           45
Ile Thr His Ala Asp Arg Ser Arg His Thr Pro Met Tyr His Phe Leu
          50           55           60
Val Val Leu Ser Leu Ser Glu Thr Val Leu Tyr Thr Leu Val Thr Ile
65           70           75           80
Pro Ser Met Leu Ala His Leu Leu Met Glu Thr Arg Pro Ile Ser Ile
          85           90           95
Pro Gly Cys Gln Ala Gln Met Phe Phe Leu Gly Leu Gly Cys Ser
          100          105          110
His Cys Phe Leu Leu Thr Leu Met Gly Tyr Asp Arg Tyr Val Ala Ile
          115          120          125
Cys His Pro Leu Arg Tyr Ser Met Val Met Arg Pro Thr Val Cys Leu
          130          135          140
Cys Leu Gly Ala Leu Val Phe Cys Ser Gly Phe Ser Val Ala Leu Ile
145          150          155          160
Glu Thr Ser Met Ile Phe Ser Ser Pro Phe Cys Gly Gly Asp His Val
          165          170          175
Glu His Phe Phe Cys Asp Ile Ala Pro Val Leu Lys Leu Ser Cys Ala
          180          185          190
Lys Ser Ala Ser Lys Ala Leu Gly Ile Phe Phe Leu Ser Val Leu Val
          195          200          205
Val Leu Met Ser Phe Val Pro Ile Leu Phe Ser Tyr Ala Phe Ile Val
          210          215          220
Ala Ala Ile Val Arg Ile Ser Leu Ala Ala Gly Arg Arg Lys Ala Phe
225          230          235          240
Ser Thr Cys Val Ala His Val Thr Val Val Val Val His Phe Asp Cys
          245          250          255
Ala Ser Ile Ile Tyr Leu Arg Pro Glu Ser Gly Ala Asn Pro Asp Gln
          260          265          270
Asp Arg Leu Val Ala Val Phe Tyr Thr Val Val Met Pro Leu Leu Asn
          275          280          285
Pro Val Val Cys Thr Leu Trp Asn Lys Glu Val Arg Val Ala Leu Arg
          290          295          300
Arg Thr Leu Ala Trp Ser Arg Gly Val Phe Lys Xaa Glu Ser
305          310          315

```

<210> 1788

<211> 112

<212> PRT

<213> Unknown (H38g706 protein)

<220>

<223> Synthetic construct

<400> 1788

```

Leu Leu Asp His Phe Ile Cys Glu Leu Pro Ala Leu Leu Lys Leu Ala
 1           5           10           15

```

Cys Gly Gly Asp Gly Asp Thr Thr Glu Asn Gln Met Phe Ala Ala Arg
 20 25 30
 Val Val Ile Leu Leu Leu Pro Phe Ala Val Ile Leu Ala Ser Tyr Gly
 35 40 45
 Ala Val Ala Arg Ala Val Cys Cys Met Arg Phe Ser Gly Gly Arg Arg
 50 55 60
 Arg Ala Val Gly Thr Cys Gly Ser His Leu Thr Ala Val Cys Leu Phe
 65 70 75 80
 Tyr Gly Ser Ala Ile Tyr Thr Tyr Leu Gln Pro Ala Gln Arg Tyr Asn
 85 90 95
 Gln His Gly Asn Arg Phe Val Ser Leu Phe Tyr Thr Val Val Thr Pro
 100 105 110

<210> 1789

<211> 313

<212> PRT

<213> Unknown (H38g707 protein)

<220>

<223> Synthetic construct

<400> 1789

Met Asp Gln Arg Asn Tyr Thr Arg Val Lys Glu Phe Thr Phe Leu Gly
 1 5 10 15
 Ile Thr Gln Ser Arg Glu Leu Ser Gln Val Leu Phe Thr Phe Leu Phe
 20 25 30
 Leu Val Tyr Met Thr Thr Leu Met Gly Asn Phe Leu Ile Met Val Thr
 35 40 45
 Val Thr Cys Glu Ser His Leu His Thr Pro Met Tyr Phe Leu Leu Arg
 50 55 60
 Asn Leu Ser Ile Leu Asp Ile Cys Phe Ser Ser Ile Thr Ala Pro Lys
 65 70 75 80
 Val Leu Ile Asp Leu Leu Ser Glu Thr Lys Thr Ile Ser Phe Ser Gly
 85 90 95
 Cys Val Thr Gln Met Phe Phe Phe His Leu Leu Gly Gly Ala Asp Val
 100 105 110
 Phe Ser Leu Ser Val Met Ala Phe Asp Arg Tyr Ile Ala Ile Ser Lys
 115 120 125
 Pro Leu His Tyr Met Thr Ile Met Ser Arg Gly Arg Cys Thr Gly Leu
 130 135 140
 Ile Val Gly Phe Leu Gly Gly Gly Leu Val His Ser Ile Ala Gln Ile
 145 150 155 160
 Ser Leu Leu Leu Pro Leu Pro Val Cys Gly Pro Asn Val Leu Asp Thr
 165 170 175
 Phe Tyr Cys Asp Val Pro Gln Val Leu Lys Leu Ala Cys Thr Asp Thr
 180 185 190
 Phe Thr Leu Glu Leu Leu Met Ile Ser Asn Asn Gly Leu Val Ser Trp
 195 200 205
 Phe Val Phe Phe Phe Leu Leu Ile Ser Tyr Thr Val Ile Leu Met Met
 210 215 220
 Leu Arg Ser His Thr Gly Glu Gly Arg Arg Lys Ala Ile Ser Thr Cys
 225 230 235 240
 Thr Ser His Ile Thr Val Val Thr Leu His Phe Val Pro Cys Ile Tyr
 245 250 255
 Val Tyr Ala Arg Pro Phe Thr Ala Leu Pro Thr Asp Thr Ala Ile Ser
 260 265 270
 Val Thr Phe Thr Val Ile Ser Pro Leu Leu Asn Pro Ile Ile Tyr Thr
 275 280 285
 Leu Arg Asn Gln Glu Met Lys Leu Ala Met Arg Lys Leu Lys Arg Arg
 290 295 300
 Leu Gly Gln Ser Glu Arg Ile Leu Ile

305

310

<210> 1790

<211> 162

<212> PRT

<213> Unknown (H38g708 protein)

<220>

<223> Synthetic construct

<400> 1790

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Ala | Ile | Cys | Asn | Pro | Leu | Leu | Tyr | Pro | Val | Met | Met | Ser | Asn | Lys |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |
| Leu | Ser | Ala | Gln | Leu | Leu | Ser | Ile | Ser | Tyr | Val | Ile | Gly | Phe | Leu | His |
| | | | 20 | | | | | 25 | | | | | 30 | | |
| Pro | Leu | Val | His | Val | Ser | Leu | Leu | Leu | Arg | Leu | Thr | Phe | Cys | Arg | Phe |
| | | 35 | | | | | 40 | | | | | 45 | | | |
| Asn | Ile | Ile | His | Tyr | Phe | Tyr | Cys | Glu | Ile | Leu | Gln | Leu | Phe | Lys | Ile |
| | 50 | | | | | 55 | | | | | 60 | | | | |
| Ser | Cys | Asn | Gly | Pro | Ser | Ile | Asn | Ala | Leu | Ile | Ile | Phe | Ile | Phe | Gly |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |
| Ala | Phe | Ile | Gln | Ile | Pro | Thr | Leu | Met | Thr | Ile | Ile | Ile | Ser | Tyr | Thr |
| | | | 85 | | | | | | 90 | | | | | 95 | |
| Arg | Val | Leu | Phe | Asp | Ile | Leu | Lys | Lys | Ser | Glu | Lys | Gly | Arg | Ser | |
| | | 100 | | | | | 105 | | | | | | 110 | | |
| Lys | Ala | Phe | Ser | Thr | Cys | Gly | Ala | His | Leu | Leu | Ser | Val | Ser | Leu | Tyr |
| | | 115 | | | | | 120 | | | | | 125 | | | |
| Tyr | Gly | Thr | Leu | Ile | Phe | Met | Tyr | Val | Arg | Pro | Ala | Ser | Gly | Leu | Ala |
| | 130 | | | | | 135 | | | | | 140 | | | | |
| Glu | Asp | Gln | Asp | Lys | Val | Tyr | Ser | Leu | Phe | Tyr | Thr | Ile | Ile | Ile | Pro |
| 145 | | | | | 150 | | | | | 155 | | | | | 160 |
| Leu | Leu | | | | | | | | | | | | | | |

<210> 1791

<211> 258

<212> PRT

<213> Unknown (H38g709 protein)

<220>

<223> Synthetic construct

<400> 1791

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Tyr | Tyr | Phe | Leu | Cys | His | Leu | Ala | Leu | Val | Asp | Ala | Gly | Phe | Thr |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |
| Thr | Ser | Val | Val | Pro | Pro | Leu | Leu | Ala | Asn | Leu | Arg | Gly | Pro | Ala | Leu |
| | | 20 | | | | | | 25 | | | | | 30 | | |
| Trp | Leu | Pro | Arg | Ser | His | Cys | Thr | Ala | Gln | Leu | Cys | Ala | Ser | Leu | Ala |
| | | 35 | | | | | 40 | | | | | 45 | | | |
| Leu | Gly | Ser | Ala | Glu | Cys | Val | Leu | Leu | Ala | Val | Met | Ala | Leu | Asp | Arg |
| | 50 | | | | | 55 | | | | | 60 | | | | |
| Ala | Ala | Ala | Val | Cys | Arg | Pro | Leu | Arg | Tyr | Ala | Gly | Leu | Val | Ser | Pro |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |
| Arg | Leu | Cys | Arg | Thr | Leu | Ala | Ser | Ala | Ser | Trp | Leu | Ser | Gly | Leu | Thr |
| | | | 85 | | | | | | 90 | | | | | 95 | |
| Asn | Ser | Val | Ala | Gln | Thr | Ala | Leu | Leu | Ala | Glu | Arg | Pro | Leu | Cys | Ala |
| | | 100 | | | | | | 105 | | | | | 110 | | |
| Pro | Arg | Leu | Leu | Asp | His | Phe | Ile | Cys | Glu | Leu | Pro | Ala | Leu | Leu | Lys |
| | | 115 | | | | | 120 | | | | | 125 | | | |
| Leu | Ala | Cys | Gly | Gly | Asp | Gly | Asp | Thr | Thr | Glu | Asn | Gln | Met | Phe | Ala |
| | 130 | | | | | 135 | | | | | 140 | | | | |

Ala Arg Val Val Ile Leu Leu Leu Pro Phe Ala Val Ile Leu Ala Ser
 145 150 155 160
 Tyr Gly Ala Val Ala Arg Ala Val Cys Cys Met Arg Phe Ser Gly Gly
 165 170 175
 Arg Arg Arg Ala Val Gly Thr Cys Gly Ser His Leu Thr Ala Val Cys
 180 185 190
 Leu Phe Tyr Gly Ser Ala Ile Tyr Thr Tyr Leu Gln Pro Ala Gln Arg
 195 200 205
 Tyr Asn Gln Ala Arg Gly Lys Phe Val Ser Leu Phe Tyr Thr Val Val
 210 215 220
 Thr Pro Ala Leu Asn Pro Leu Ile Tyr Thr Leu Arg Asn Lys Lys Val
 225 230 235 240
 Lys Gly Ala Ala Arg Arg Leu Leu Arg Ser Leu Gly Arg Gly Gln Ala
 245 250 255
 Gly Gln

<210> 1792

<211> 316

<212> PRT

<213> Unknown (H38g710 protein)

<220>

<223> Synthetic construct

<400> 1792

Met Gln Arg Ala Asn His Ser Thr Val Thr Gln Phe Ile Leu Val Gly
 1 5 10 15
 Phe Ser Val Phe Pro His Leu Gln Leu Met Leu Phe Leu Phe Leu
 20 25 30
 Leu Met Tyr Leu Phe Thr Leu Leu Gly Asn Leu Leu Ile Met Ala Thr
 35 40 45
 Val Trp Ser Glu Arg Ser Leu His Thr Pro Met Tyr Leu Phe Leu Cys
 50 55 60
 Ala Leu Ser Val Ser Glu Ile Leu Tyr Thr Val Ala Ile Ile Pro Arg
 65 70 75 80
 Met Leu Ala Asp Leu Leu Ser Thr Gln Arg Ser Ile Ala Phe Leu Ala
 85 90 95
 Cys Ala Ser Gln Met Phe Phe Ser Phe Ser Phe Gly Phe Thr His Ser
 100 105 110
 Phe Leu Leu Thr Val Met Gly Tyr Asp Arg Tyr Val Ala Ile Cys His
 115 120 125
 Pro Leu Arg Tyr Asn Val Leu Met Ser Pro Arg Gly Cys Ala Cys Leu
 130 135 140
 Val Gly Cys Ser Trp Ala Gly Gly Leu Val Met Gly Met Val Val Thr
 145 150 155 160
 Ser Ala Ile Phe His Leu Ala Phe Cys Gly His Lys Glu Ile His His
 165 170 175
 Phe Ala Cys His Val Pro Pro Leu Leu Lys Leu Ala Cys Gly Asp Asp
 180 185 190
 Val Leu Val Val Ala Lys Gly Val Gly Leu Val Cys Ile Thr Ala Leu
 195 200 205
 Leu Gly Cys Phe Leu Leu Ile Leu Leu Ser Tyr Ala Phe Ile Val Ala
 210 215 220
 Ala Ile Leu Lys Ile Pro Ser Ala Glu Gly Arg Asn Lys Ala Phe Ser
 225 230 235 240
 Thr Cys Ala Ser His Leu Thr Val Val Val Val His Tyr Gly Phe Ala
 245 250 255
 Ser Val Ile Tyr Leu Lys Pro Lys Ser Pro Gln Ser Leu Glu Gly Asp
 260 265 270
 Thr Leu Met Gly Ile Thr Tyr Thr Val Leu Thr Pro Phe Leu Ser Pro

| | | | | | |
|-----|---|-----------------|-----|--|-----|
| | 275 | | 280 | | 285 |
| Ile | Ile Phe Ser Leu Arg Asn Lys Glu Leu Lys Val | Ala Met Lys Lys | | | |
| | 290 | 295 | 300 | | |
| Thr | Phe Phe Ser Lys Leu Tyr Pro Glu Lys Asn Val | | | | |
| 305 | 310 | 315 | | | |

<210> 1793
 <211> 225
 <212> PRT
 <213> Unknown (H38g711 protein)

<220>
 <223> Synthetic construct

<221> VARIANT
 <222> (1)...(225)
 <223> Xaa = Any Amino Acid

| |
|---|
| <400> 1793 |
| Leu Pro Asp Ile Gly Phe Thr Ser Thr Thr Val Pro Lys Met Ile Val |
| 1 5 10 15 |
| Asp Ile Gln Ser His Ser Arg Val Leu Ser Tyr Ala Gly Cys Leu Ile |
| 20 25 30 |
| Arg Cys Leu Ser Leu Pro Leu Leu Glu Ala Trp Lys Arg Gly Met Leu |
| 35 40 45 |
| Leu Ser Val Met Ala Tyr Asp Arg Phe Val Ala Ile Cys His Pro Leu |
| 50 55 60 |
| Tyr Arg Ser Ala Ile Leu Asn Pro Xaa Phe Cys Gly Phe Leu Asp Leu |
| 65 70 75 80 |
| Leu Ser Phe Phe Phe Leu Phe Val Cys Phe Val Phe Leu Ser Leu Leu |
| 85 90 95 |
| Asp Ser Gln Leu His Asn Leu Ile Ala Leu Gln Met Thr Cys Ser Lys |
| 100 105 110 |
| Asp Val Glu Ile Pro Asn Phe Phe Trp Glu Pro Ser Gln Leu Pro His |
| 115 120 125 |
| Leu Ala Cys Cys Asp Thr Phe Thr Arg Asn Ile Asn Met Tyr Phe Pro |
| 130 135 140 |
| Ala Ala Val Phe Gly Phe Leu Pro Ile Ser Gly Thr Phe Tyr Ser Tyr |
| 145 150 155 160 |
| Cys Lys Ile Leu Ser Ser Ile Leu Arg Val Ser Ser Ser Gly Gly Lys |
| 165 170 175 |
| Tyr Lys Ala Phe Ser Thr Cys Gly Ser His Leu Ser Val Val Cys Xaa |
| 180 185 190 |
| Phe Tyr Gly Thr Gly Val Gly Gly Tyr Leu Gly Ser Asp Val Ser Ser |
| 195 200 205 |
| Ser Pro Arg Lys Ser Ala Val Ala Ser Val Met Tyr Thr Val Val Thr |
| 210 215 220 |
| Pro |
| 225 |

<210> 1794
 <211> 218
 <212> PRT
 <213> Unknown (H38g712 protein)

<220>
 <223> Synthetic construct

<221> VARIANT
 <222> (1)...(218)
 <223> Xaa = Any Amino Acid

<400> 1794

```

Leu Pro Asp Ile Gly Phe Thr Ser Thr Met Val Pro Lys Met Ile Val
 1           5           10           15
Asp Ile Gln Ser His Ser Arg Val Ile Ser Tyr Ala Gly Arg Leu Thr
 20           25           30
Gln Met Ser Leu Phe Ala Ile Phe Gly Gly Met Glu Glu Ser Met Leu
 35           40           45
Leu Ser Val Met Ala Tyr Asp Arg Phe Val Ala Ile Cys His Pro Leu
 50           55           60
Cys His Ser Ala Ile Thr Asn Pro Cys Phe Cys Gly Phe Leu Val Leu
 65           70           75           80
Leu Ser Phe Phe Phe Leu Ser Pro Leu Asp Ala Gln Leu His Asn Leu
 85           90           95
Ile Ala Leu Gln Arg Thr Cys Phe Lys Asp Val Glu Ile Pro Asn Phe
100           105           110
Phe Cys Asp Pro Ser Gln Phe Pro Arg Leu Ala Cys Cys Gly Thr Phe
115           120           125
Thr Asn Asn Ile Ile Met Tyr Phe Pro Ala Ala Ile Phe Gly Phe Leu
130           135           140
Pro Ile Ser Gly Thr Leu Phe Ser Tyr Asp Lys Ile Val Phe Ser Ile
145           150           155           160
Leu Arg Val Ser Ser Ser Gly Gly Lys His Lys Ala Phe Ser Thr Arg
165           170           175
Gly Ser His Leu Ser Val Val Cys Xaa Phe Tyr Gly Thr Gly Val Gly
180           185           190
Glu Tyr Leu Gly Ser Asp Val Ser Ser Ser Pro Arg Lys Gly Ala Val
195           200           205
Ala Ser Val Met Tyr Thr Val Val Thr Pro
210           215

```

<210> 1795

<211> 216

<212> PRT

<213> Unknown (H38g713 protein)

<220>

<223> Synthetic construct

<400> 1795

```

Leu Val Asp Phe Gly Tyr Ser Ser Ala Val Thr Pro Lys Val Met Ala
 1           5           10           15
Gly Phe Leu Ile Glu Asp Lys Val Ile Ser Tyr Asn Ala Cys Ala Ala
 20           25           30
Gln Met Tyr Ile Phe Val Ala Phe Ala Thr Val Glu Asn Tyr Leu Leu
 35           40           45
Ala Ser Met Ala Tyr Asp Arg Tyr Ala Ala Val Cys Lys Pro Leu His
 50           55           60
Tyr Thr Thr Thr Met Thr Thr Thr Val Cys Ala Arg Leu Ala Ile Gly
 65           70           75           80
Ser Tyr Leu Cys Gly Phe Leu Asn Ala Ser Ile His Thr Gly Asp Thr
 85           90           95
Phe Ser Leu Ser Phe Cys Lys Ser Asn Glu Val His His Phe Phe Cys
100           105           110
Asp Ile Pro Ala Val Met Val Leu Ser Cys Ser Asp Arg His Ile Ser
115           120           125
Glu Leu Val Leu Ile Tyr Val Val Ser Phe Asn Ile Phe Ile Ala Leu
130           135           140
Leu Val Ile Leu Ile Ser Tyr Thr Phe Ile Phe Ile Thr Ile Leu Lys
145           150           155           160
Met His Ser Ala Ser Val Tyr Gln Lys Pro Leu Ser Thr Cys Ala Ser

```

| | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | | 165 | | | | | | 170 | | | | | 175 |
| His | Phe | Ile | Ala | Val | Gly | Ile | Phe | Tyr | Gly | Thr | Ile | Ile | Phe |
| | | 180 | | | | | | 185 | | | | | 190 |
| Leu | Gln | Pro | Ser | Ser | Ser | His | Ser | Met | Asp | Thr | Asp | Lys | Met |
| | | 195 | | | | | 200 | | | | | 205 | |
| Val | Phe | Tyr | Thr | Met | Val | Ile | Pro | | | | | | |
| | | 210 | | | | 215 | | | | | | | |

<210> 1796

<211> 215

<212> PRT

<213> Unknown (H38g714 protein)

<220>

<223> Synthetic construct

<400> 1796

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Val | Asp | Ile | Ser | Tyr | Ala | Ser | Asn | Tyr | Val | Pro | Lys | Met | Leu | Thr |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |
| Asn | Leu | Met | Asn | Gln | Glu | Ser | Thr | Ile | Ser | Phe | Phe | Pro | Cys | Ile | Met |
| | | | 20 | | | | | 25 | | | | | 30 | | |
| Gln | Thr | Phe | Leu | Tyr | Leu | Ala | Phe | Ala | His | Val | Glu | Cys | Leu | Ile | Leu |
| | | 35 | | | | 40 | | | | | | 45 | | | |
| Val | Val | Met | Ser | Tyr | Asp | Arg | Tyr | Ala | Asp | Ile | Cys | His | Pro | Leu | Arg |
| | 50 | | | | 55 | | | | | 60 | | | | | |
| Tyr | Asn | Ile | Leu | Met | Ser | Trp | Arg | Val | Cys | Thr | Val | Leu | Ala | Val | Ala |
| 65 | | | | | 70 | | | | 75 | | | | | 80 | |
| Ser | Trp | Val | Phe | Ser | Phe | Leu | Leu | Ala | Leu | Val | Pro | Leu | Val | Leu | Ile |
| | | | 85 | | | | | 90 | | | | | 95 | | |
| Leu | Arg | Leu | Pro | Phe | Cys | Gly | Pro | His | Glu | Ile | Asn | His | Phe | Cys | Glu |
| | | 100 | | | | | | 105 | | | | | 110 | | |
| Ile | Leu | Ser | Val | Leu | Lys | Leu | Ala | Cys | Ala | Asp | Thr | Trp | Leu | Asn | Gln |
| | | 115 | | | | 120 | | | | | | 125 | | | |
| Val | Val | Ile | Phe | Ala | Ala | Cys | Val | Phe | Ile | Leu | Val | Gly | Pro | Leu | Cys |
| | 130 | | | | 135 | | | | | | 140 | | | | |
| Leu | Val | Leu | Val | Ser | Tyr | Leu | Arg | Ile | Leu | Ala | Ile | Leu | Arg | Ile | |
| 145 | | | | 150 | | | | | 155 | | | | | 160 | |
| Gln | Ser | Gly | Glu | Gly | Arg | Arg | Lys | Ala | Phe | Ser | Thr | Cys | Ser | Ser | His |
| | | | 165 | | | | | 170 | | | | | | 175 | |
| Leu | Cys | Val | Val | Gly | Leu | Phe | Phe | Gly | Ser | Ala | Ile | Val | Thr | Tyr | Met |
| | | 180 | | | | | 185 | | | | | 190 | | | |
| Ala | Pro | Lys | Ser | Arg | His | Pro | Glu | Glu | Gln | Gln | Lys | Val | Leu | Ser | Leu |
| | | 195 | | | | 200 | | | | | | 205 | | | |
| Phe | Tyr | Ser | Leu | Phe | Asn | Pro | | | | | | | | | |
| | 210 | | | | 215 | | | | | | | | | | |

<210> 1797

<211> 162

<212> PRT

<213> Unknown (H38g715 protein)

<220>

<223> Synthetic construct

<400> 1797

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Ala | Ile | Cys | Lys | Pro | Leu | His | Tyr | Val | Val | Ile | Met | Asn | Asn | Arg |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |
| Val | Cys | Thr | Leu | Leu | Val | Leu | Cys | Cys | Trp | Val | Ala | Gly | Leu | Met | Ile |
| | | | 20 | | | | | 25 | | | | | 30 | | |
| Ile | Val | Pro | Pro | Leu | Ser | Leu | Gly | Leu | Gln | Leu | Glu | Phe | Cys | Asp | Ser |
| | | 35 | | | | 40 | | | | | | 45 | | | |

```

Asn Ala Ile Asp His Phe Ser Cys Asp Ala Gly Pro Leu Leu Lys Ile
 50                      55                      60
Ser Cys Ser Asp Thr Trp Val Ile Glu Gln Met Val Ile Leu Met Ala
65                      70                      75                      80
Val Phe Ala Leu Ile Ile Thr Pro Val Cys Val Ile Leu Ser Tyr Leu
                        85                      90                      95
Tyr Ile Val Arg Thr Ile Leu Lys Phe Pro Ser Val Gln Gln Arg Lys
                        100                     105                     110
Lys Ala Phe Ser Thr Cys Ser Ser His Met Ile Val Val Ser Ile Ala
                        115                     120                     125
Tyr Gly Ser Cys Ile Phe Ile Tyr Ile Lys Pro Ser Ala Lys Asp Glu
                        130                     135                     140
Val Ala Ile Asn Lys Gly Val Ser Val Leu Thr Thr Ser Val Ala Pro
145                      150                      155                      160
Leu Leu

```

<210> 1798

<211> 224

<212> PRT

<213> Unknown (H38g716 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(224)

<223> Xaa = Any Amino Acid

<400> 1798

```

Leu Pro Asp Ile Gly Phe Thr Ser Thr Thr Val Pro Lys Met Ile Val
 1                      5                      10                      15
Asp Ile Gln Ser His Ser Arg Val Ile Ser Tyr Ala Gly Cys Leu Thr
                        20                      25                      30
Gln Met Ser Leu Phe Ala Ile Phe Gly Gly Met Glu Glu Asn Met Leu
                        35                      40                      45
Leu Ser Val Met Ala Tyr Asp Gln Phe Val Ala Ile Cys His Pro Pro
                        50                      55                      60
Tyr Arg Ser Ala Ile Leu Asn Pro Cys Phe Cys Gly Phe Gln Asp Leu
65                      70                      75                      80
Leu Ser Leu Tyr Phe Phe Leu Phe Phe Ser Phe Phe Leu Arg Leu Leu
                        85                      90                      95
Asp Ser Gln Leu His Asn Leu Ile Ala Leu Gln Met Thr Cys Phe Lys
                        100                     105                     110
Asp Val Glu Ile Ser Asn Val Phe Trp Glu Pro Ser Gln Leu Ser His
                        115                     120                     125
Leu Ala Cys Cys Asp Thr Phe Thr Arg Asn Ile Met Tyr Phe Pro Ala
                        130                     135                     140
Ala Ile Phe Gly Phe Leu Pro Ile Leu Gly Thr Leu Phe Ser Tyr Cys
145                      150                      155                      160
Lys Ile Val Ser Ser Ile Leu Arg Val Ser Ser Ser Gly Gly Lys Tyr
                        165                      170                      175
Lys Ala Phe Ser Thr Cys Gly Ser His Leu Ser Val Val Cys Xaa Phe
                        180                      185                      190
Tyr Gly Thr Gly Val Gly Gly Tyr Leu Ser Ser Asp Val Ser Ser Ser
                        195                      200                      205
Leu Arg Lys Ala Ala Val Ala Ser Val Met Tyr Lys Met Val Thr Pro
210                      215                      220

```

<210> 1799

<211> 218

<212> PRT

<213> Unknown (H38g717 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(218)

<223> Xaa = Any Amino Acid

<400> 1799

```

Leu Ala Asp Ile Gly Phe Thr Ser Asn Thr Val Pro Lys Met Ile Val
 1           5           10           15
Asp Ile Gln Ser His Ser Arg Val Ile Ser Tyr Ala Gly Cys Leu Thr
          20           25           30
Gln Met Ser Leu Phe Ala Val Phe Gly Gly Met Glu Glu Ser Met Leu
          35           40           45
Leu Ser Val Arg Ala Tyr Asp Arg Phe Val Ala Ile Cys His Pro Leu
          50           55           60
Tyr Tyr Ser Ala Ile Met Asn Pro Cys Phe Cys Gly Phe Leu Val Leu
          65           70           75           80
Cys Phe Ser Phe Phe Leu Ser Leu Leu Asp Ser Gln Leu His Asn Leu
          85           90           95
Ile Ala Leu Gln Met Thr Cys Ile Lys Asp Val Glu Ile Pro Asn Phe
          100          105          110
Phe Cys Asp Pro Ser Gln Leu Pro His Leu Ala Cys Cys Asp Thr Phe
          115          120          125
Thr Ile Asn Ile Val Met Tyr Phe Pro Ala Ala Ile Phe Gly Phe Leu
          130          135          140
Pro Ile Ser Gly Thr Leu Phe Ser Tyr Ser Lys Ile Val Ser Ser Ile
          145          150          155          160
Leu Arg Val Ser Ser Ser Gly Gly Lys Tyr Lys Ala Phe Ser Thr Cys
          165          170          175
Gly Ser His Leu Ser Val Val Cys Xaa Val Tyr Gly Thr Gly Val Gly
          180          185          190
Gly Tyr Leu Ser Ser Asp Val Ser Ser Ser Leu Arg Lys Ala Ala Val
          195          200          205
Ala Ser Val Met Tyr Thr Val Val Thr Pro
          210          215

```

<210> 1800

<211> 295

<212> PRT

<213> Unknown (H38g718 protein)

<220>

<223> Synthetic construct

<400> 1800

```

Leu Ile Phe Phe Leu Ile Tyr Pro Leu Ile Leu Val Gly Asn Asp Gln
 1           5           10           15
Ile Leu Val Val Val Met Ala Glu Ala Ser Leu His Lys Pro Val Tyr
          20           25           30
Phe Phe Leu Ile Asn Leu Ser Ala Leu Asp Ile Leu Ser Thr Thr Val
          35           40           45
Thr Val Pro Lys Thr Leu Pro Leu Phe Leu Leu Gly Asp His Phe Leu
          50           55           60
Ser Phe Pro Ala Cys Phe Leu Gln Met Tyr Leu Phe His Ser Phe Ser
          65           70           75           80
Cys Ser Glu Ala Phe Ile Leu Val Val Met Ala Tyr Asp Arg Tyr Val
          85           90           95

```

Ala Ile Cys His Pro Leu Gln Tyr Pro Val Leu Met Asn Pro Gln Thr
 100 105 110
 Asn Ala Val Leu Ala Thr Gly Ala Trp Leu Thr Ala Leu Leu Leu Pro
 115 120 125
 Ile Pro Ala Val Val Gln Thr Ser Gln Met Ala Phe Asp Ser Ile Ala
 130 135 140
 Asp Ile Tyr His Cys Phe Cys Asp His Leu Ala Val Val Gln Ala Ser
 145 150 155 160
 Cys Ser Asp Thr Ser Pro Gln Thr Phe Met Gly Phe Cys Ile Ala Met
 165 170 175
 Val Val Ser Phe Leu Pro Leu Leu Leu Val Leu Leu Ser Tyr Ala His
 180 185 190
 Ile Leu Thr Ser Val Leu Arg Ile Asn Ser Gln Glu Gly Arg Ser Lys
 195 200 205
 Ala Phe Ser Thr Cys Ser Ser His Leu Pro Val Val Gly Thr Tyr Tyr
 210 215 220
 Ser Ser Ile Ala Ile Ala Tyr Val Ala Tyr Ser Ala Asp Leu Pro Leu
 225 230 235 240
 Asp Phe His Val Met Gly Asn Val Val His Ala Leu Leu Leu Pro Leu
 245 250 255
 Leu Leu Leu Leu Pro Leu Pro Leu Leu Pro Leu Pro Leu Arg Leu Pro
 260 265 270
 Leu Leu Leu Leu Leu Arg Ser Pro Ser Ser Ser Ser Ser Pro Ser
 275 280 285
 Pro Ser Ser Ser Phe Phe Phe
 290 295

<210> 1801

<211> 311

<212> PRT

<213> Unknown (H38g719 protein)

<220>

<223> Synthetic construct

<400> 1801

Met Glu Met Glu Asn Cys Thr Arg Val Lys Glu Phe Ile Phe Leu Gly
 1 5 10 15
 Leu Thr Gln Asn Arg Glu Val Ser Leu Val Leu Phe Leu Phe Leu Leu
 20 25 30
 Leu Val Tyr Val Thr Thr Leu Leu Gly Asn Leu Leu Ile Met Val Thr
 35 40 45
 Val Thr Cys Glu Ser Arg Leu His Thr Pro Met Tyr Phe Leu Leu His
 50 55 60
 Asn Leu Ser Ile Ala Asp Ile Cys Phe Ser Ser Ile Thr Val Pro Lys
 65 70 75 80
 Val Leu Val Asp Leu Leu Ser Glu Arg Lys Thr Ile Ser Phe Asn His
 85 90 95
 Cys Phe Thr Gln Met Phe Leu Phe His Leu Ile Gly Gly Val Asp Val
 100 105 110
 Phe Ser Leu Ser Val Met Ala Leu Asp Arg Tyr Val Ala Ile Ser Lys
 115 120 125
 Pro Leu His Tyr Ala Thr Ile Met Ser Arg Asp Gln Cys Ile Gly Leu
 130 135 140
 Thr Val Ala Ala Trp Leu Gly Gly Phe Val His Ser Ile Val Gln Ile
 145 150 155 160
 Ser Leu Leu Leu Pro Leu Pro Phe Cys Gly Pro Asn Val Leu Asp Thr
 165 170 175
 Phe Tyr Cys Asp Val His Arg Val Leu Lys Leu Ala His Thr Asp Ile
 180 185 190
 Phe Ile Leu Glu Leu Leu Met Ile Ser Asn Asn Gly Leu Leu Thr Thr

| | | |
|---|-----|-----|
| 195 | 200 | 205 |
| Leu Trp Phe Phe Leu Leu Leu Val Ser Tyr Ile Val Ile Leu Ser Leu | | |
| 210 | 215 | 220 |
| Pro Lys Ser Gln Ala Gly Glu Gly Arg Arg Lys Ala Ile Ser Thr Cys | | |
| 225 | 230 | 235 |
| Thr Ser His Ile Thr Val Val Thr Leu His Phe Val Pro Cys Ile Tyr | | |
| 245 | 250 | 255 |
| Val Tyr Ala Arg Pro Phe Thr Ala Leu Pro Met Asp Lys Ala Ile Ser | | |
| 260 | 265 | 270 |
| Val Thr Phe Thr Val Ile Ser Pro Leu Leu Asn Pro Leu Ile Tyr Thr | | |
| 275 | 280 | 285 |
| Leu Arg Asn His Glu Met Lys Ser Ala Met Arg Arg Leu Lys Arg Arg | | |
| 290 | 295 | 300 |
| Leu Val Pro Ser Asp Arg Lys | | |
| 305 | 310 | |

<210> 1802

<211> 299

<212> PRT

<213> Unknown (H38g720 protein)

<220>

<223> Synthetic construct.

<400> 1802

| | | |
|---|-----|-----|
| Thr Met Gln Gln Asn Asn Ser Val Pro Glu Phe Ile Leu Leu Gly Leu | | |
| 1 | 5 | 10 |
| Thr Gln Asp Pro Leu Arg Gln Lys Ile Val Phe Val Ile Phe Leu Ile | | |
| 20 | 25 | 30 |
| Phe Tyr Met Gly Thr Val Val Gly Asn Met Leu Ile Ile Val Thr Ile | | |
| 35 | 40 | 45 |
| Lys Ser Ser Arg Thr Leu Gly Ser Pro Met Tyr Phe Phe Leu Phe Tyr | | |
| 50 | 55 | 60 |
| Leu Ser Phe Ala Asp Ser Cys Phe Ser Thr Ser Thr Ala Pro Arg Leu | | |
| 65 | 70 | 75 |
| Ile Val Asp Ala Leu Ser Glu Lys Lys Ile Ile Thr Tyr Asn Glu Cys | | |
| 85 | 90 | 95 |
| Met Thr Gln Val Phe Ala Leu His Leu Phe Gly Cys Met Glu Ile Phe | | |
| 100 | 105 | 110 |
| Val Leu Ile Leu Met Ala Val Asp Arg Tyr Val Ala Ile Cys Lys Pro | | |
| 115 | 120 | 125 |
| Leu Arg Tyr Pro Thr Ile Met Ser Gln Gln Val Cys Ile Ile Leu Ile | | |
| 130 | 135 | 140 |
| Val Leu Ala Trp Ile Gly Ser Leu Ile His Ser Thr Ala Gln Ile Ile | | |
| 145 | 150 | 155 |
| Leu Ala Leu Arg Leu Pro Phe Cys Gly Pro Tyr Leu Ile Asp His Tyr | | |
| 165 | 170 | 175 |
| Cys Cys Asp Leu Gln Pro Leu Leu Lys Leu Ala Cys Met Asp Thr Tyr | | |
| 180 | 185 | 190 |
| Met Ile Asn Leu Leu Leu Val Ser Asn Ser Gly Ala Ile Cys Ser Ser | | |
| 195 | 200 | 205 |
| Ser Phe Met Ile Leu Ile Ile Ser Tyr Ile Val Ile Leu His Ser Leu | | |
| 210 | 215 | 220 |
| Arg Asn His Ser Ala Lys Gly Lys Lys Lys Ala Leu Ser Ala Cys Thr | | |
| 225 | 230 | 235 |
| Ser His Ile Ile Val Val Ile Leu Phe Phe Gly Pro Cys Ile Phe Ile | | |
| 245 | 250 | 255 |
| Tyr Thr Arg Pro Thr Thr Phe Pro Met Asp Lys Met Val Ala Val | | |
| 260 | 265 | 270 |
| Phe Tyr Thr Ile Gly Thr Pro Phe Leu Asn Pro Leu Ile Tyr Thr Leu | | |
| 275 | 280 | 285 |

Arg Asn Ala Glu Val Lys Asn Ala Met Arg Lys
290 295

<210> 1803

<211> 314

<212> PRT

<213> Unknown (H38g721 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(314)

<223> Xaa = Any Amino Acid

<400> 1803

```

Met Glu Leu Gly Asn Val Thr Arg Val Lys Glu Phe Ile Phe Leu Gly
 1          5          10          15
Leu Thr Gln Ser Gln Asp Gln Ser Leu Val Leu Phe Leu Phe Leu Cys
          20          25          30
Leu Val Tyr Met Thr Thr Leu Leu Gly Asn Leu Leu Ile Met Val Thr
          35          40          45
Val Thr Cys Glu Ser Arg Leu His Thr Pro Met Tyr Phe Leu Leu Arg
          50          55          60
Asn Leu Ala Ile Leu Asp Ile Cys Phe Ser Ser Thr Thr Ala Pro Lys
          65          70          75          80
Val Leu Leu Asp Leu Leu Ser Lys Lys Lys Thr Ile Ser Tyr Thr Ser
          85          90          95
Cys Met Thr Gln Ile Phe Leu Phe His Leu Leu Gly Gly Ala Asp Ile
          100          105          110
Phe Ser Leu Ser Val Met Ala Phe Asp Cys Tyr Met Ala Ile Ser Lys
          115          120          125
Pro Leu His Tyr Val Thr Ile Met Ser Arg Gly Gln Cys Thr Ala Leu
          130          135          140
Ile Ser Ala Ser Trp Met Gly Gly Phe Val His Ser Ile Val Gln Ile
          145          150          155          160
Ser Leu Leu Leu Pro Leu Pro Phe Cys Gly Pro Asn Val Leu Asp Thr
          165          170          175
Phe Tyr Cys Asp Val Pro Gln Val Leu Lys Leu Thr Cys Thr Asp Thr
          180          185          190
Phe Ala Leu Glu Phe Leu Met Ile Ser Asn Asn Gly Leu Val Thr Thr
          195          200          205
Leu Trp Phe Ile Phe Leu Leu Val Ser Tyr Thr Val Ile Leu Met Thr
          210          215          220
Leu Arg Ser Gln Ala Gly Gly Gly Arg Arg Lys Ala Ile Ser Thr Cys
          225          230          235          240
Thr Ser His Ile Thr Val Val Thr Leu His Phe Val Pro Cys Ile Tyr
          245          250          255
Val Tyr Ala Arg Pro Phe Thr Ala Leu Pro Thr Glu Lys Ala Ile Ser
          260          265          270
Val Thr Phe Thr Val Ile Ser Pro Leu Leu Asn Pro Leu Ile Tyr Thr
          275          280          285
Leu Arg Asn Gln Glu Met Lys Ser Ala Met Arg Arg Leu Lys Arg Arg
          290          295          300
Leu Val Pro Ser Glu Arg Glu Xaa Lys Thr
          305          310

```

<210> 1804

<211> 314

<212> PRT

<213> Unknown (H38g722 protein)

<220>

<223> Synthetic construct

<400> 1804

```

Met Leu Gly Leu Asn His Thr Ser Met Ser Glu Phe Ile Leu Val Gly
1      5      10      15
Phe Ser Ala Phe Pro His Leu Gln Leu Met Leu Phe Leu Leu Phe Leu
20      25      30
Leu Met Tyr Leu Phe Thr Leu Leu Gly Asn Leu Leu Ile Met Ala Thr
35      40      45
Val Trp Ser Glu Arg Ser Leu His Thr Pro Met Tyr Leu Phe Leu Cys
50      55      60
Val Leu Ser Val Ser Glu Ile Leu Tyr Thr Val Ala Ile Ile Pro Arg
65      70      75      80
Met Leu Ala Asp Leu Leu Ser Thr Gln Arg Ser Ile Ala Phe Leu Ala
85      90      95
Cys Ala Ser Gln Met Phe Phe Ser Phe Ser Phe Gly Phe Thr His Ser
100     105     110
Phe Leu Leu Thr Val Met Gly Tyr Asp Arg Tyr Val Ala Ile Cys His
115     120     125
Pro Leu Arg Tyr Asn Val Leu Met Ser Pro Arg Gly Cys Ala Cys Leu
130     135     140
Val Gly Cys Ser Trp Ala Gly Gly Ser Val Met Gly Met Val Val Thr
145     150     155     160
Ser Ala Ile Phe Gln Leu Thr Phe Cys Gly Ser His Glu Ile Gln His
165     170     175
Phe Leu Cys His Val Pro Pro Leu Leu Lys Leu Ala Cys Gly Asn Asn
180     185     190
Val Pro Ala Val Ala Leu Gly Val Gly Leu Val Cys Ile Met Ala Leu
195     200     205
Leu Gly Cys Phe Leu Leu Ile Leu Leu Ser Tyr Ala Phe Ile Val Ala
210     215     220
Asp Ile Leu Lys Ile Pro Ser Ala Glu Gly Arg Asn Lys Ala Phe Ser
225     230     235     240
Thr Cys Ala Ser His Leu Ile Val Val Ile Val His Tyr Gly Phe Ala
245     250     255
Ser Val Ile Tyr Leu Lys Pro Lys Gly Pro His Ser Gln Glu Gly Asp
260     265     270
Thr Leu Met Ala Thr Thr Tyr Ala Val Leu Thr Pro Phe Leu Ser Pro
275     280     285
Ile Ile Phe Ser Leu Arg Asn Lys Glu Leu Lys Val Ala Met Lys Arg
290     295     300
Thr Phe Leu Ser Thr Leu Tyr Ser Ser Gly
305     310

```

<210> 1805

<211> 316

<212> PRT

<213> Unknown (H38g723 protein)

<220>

<223> Synthetic construct

<400> 1805

```

Met Pro Gly Gln Asn Tyr Arg Thr Ile Ser Glu Phe Ile Leu Ser Gly
1      5      10      15
Phe Ser Ala Phe Pro Gln Gln Leu Leu Pro Val Leu Phe Leu Leu Tyr
20      25      30
Leu Leu Met Phe Leu Phe Thr Leu Leu Gly Asn Leu Leu Ile Met Ala
35      40      45

```


Thr Val Trp Ile Glu Arg Arg Leu His Thr Pro Met Tyr Leu Phe Leu
 50 55 60
 Cys Ala Leu Ser Ile Ser Glu Ile Leu Phe Thr Val Ala Ile Thr Pro
 65 70 75 80
 Arg Met Leu Ala Asp Leu Leu Phe Thr His Arg Ser Ile Thr Phe Val
 85 90 95
 Ala Cys Ala Ile Gln Met Phe Phe Ser Phe Met Phe Gly Phe Thr His
 100 105 110
 Ser Phe Leu Leu Met Val Met Gly Tyr Asp His Tyr Val Thr Ile Cys
 115 120 125
 His Pro Leu His Tyr Asn Met Leu Met Ser Pro Arg Gly Cys Ala His
 130 135 140
 Leu Val Ala Trp Thr Trp Ala Gly Gly Ser Val Met Gly Met Met Val
 145 150 155 160
 Thr Met Met Val Phe His Leu Thr Phe Cys Gly Ser Asn Val Ile His
 165 170 175
 His Phe Leu Cys His Val Leu Ser Leu Leu Lys Leu Ala Cys Gly Ser
 180 185 190
 Lys Thr Ser Ser Val Ile Met Gly Val Met Leu Val Cys Val Thr Ala
 195 200 205
 Leu Ile Gly Cys Leu Phe Leu Ile Ile Leu Ser Phe Val Phe Ile Val
 210 215 220
 Ala Ala Ile Leu Arg Ile Pro Ser Ala Glu Gly Arg His Lys Thr Phe
 225 230 235 240
 Ser Thr Cys Val Ser His Leu Thr Val Val Val Met His Tyr Ser Phe
 245 250 255
 Ala Ser Leu Ile Tyr Leu Lys Pro Lys Gly Leu His Ser Met Tyr Ser
 260 265 270
 Asp Ala Leu Met Ala Thr Thr Tyr Thr Val Phe Thr Pro Phe Leu Ser
 275 280 285
 Pro Ile Ile Phe Ser Leu Arg Asn Lys Glu Leu Lys Asn Ala Ile Asn
 290 295 300
 Lys Asn Phe Cys Arg Arg Phe Cys Pro Leu Ser Ser
 305 310 315

<210> 1806

<211> 161

<212> PRT

<213> Unknown (H38g724 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(161)

<223> Xaa = Any Amino Acid

<400> 1806

Gly Trp Lys Ser Ser Thr Phe Asn Ile Ser Cys Thr Lys Phe Phe Leu
 1 5 10 15
 Val Gly Phe Pro Gly Leu Arg Glu Trp Trp Pro Leu Leu Val Leu Pro
 20 25 30
 Leu Val Phe Leu Phe Val Thr Ile Ile Ser Ala Asn Ala Leu Val Ile
 35 40 45
 His Thr Val Val Ala Arg Gln Asn Leu His Gln Pro Thr Cys Met Leu
 50 55 60
 Ile Thr Val Leu Leu Ala Val Asn Ile Arg Ala Ala Thr Ala Val Met
 65 70 75 80
 Pro Lys Met Leu Glu Gly Phe Val Tyr Tyr Ala Asn Pro Ile Ser Leu
 85 90 95
 His Gly Arg Leu Ala Xaa Val Phe Phe Ile Tyr Phe Thr Leu Leu Leu

| | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|
| | | | 100 | | | | | 105 | | | | | 110 | | | | |
| Asp | Tyr | Asn | Phe | Leu | Trp | Pro | Trp | Pro | Trp | Thr | Gly | Tyr | Phe | Ala | Ile | | |
| | | 115 | | | | | | 120 | | | | 125 | | | | | |
| Cys | His | Pro | Leu | Cys | Phe | Ser | Asp | Leu | Met | Thr | Ser | Gln | Leu | Leu | Gly | | |
| | | 130 | | | | 135 | | | | | 140 | | | | | | |
| Leu | Leu | Ala | Ile | Leu | Ala | Phe | Glu | Gln | Ser | Pro | Gly | Ser | Asp | Pro | Ala | | |
| 145 | | | | | 150 | | | | | 155 | | | | | 160 | | |
| Pro | | | | | | | | | | | | | | | | | |

<210> 1807

<211> 198

<212> PRT

<213> Unknown (H38g725 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(198)

<223> Xaa = Any Amino Acid

<400> 1807

| | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|
| Val | Ala | Ile | Cys | His | Pro | Leu | Cys | Phe | Gln | Thr | Glu | Xaa | Leu | Pro | Ser | | |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | | | |
| Trp | Leu | Gly | Leu | Leu | Ala | Ile | Leu | Ala | Leu | Thr | Gln | Ser | Trp | Gly | Val | | |
| | | | 20 | | | | | 25 | | | | | 30 | | | | |
| Thr | Val | Pro | Leu | Val | Val | Leu | Thr | Ala | Lys | Ala | Asp | Phe | Cys | Arg | Thr | | |
| | | 35 | | | | 40 | | | | | 45 | | | | | | |
| Ala | Val | Ile | Arg | His | Phe | Thr | Cys | Glu | Cys | Ile | Ala | Leu | Leu | Ser | Ile | | |
| | 50 | | | | 55 | | | | | 60 | | | | | | | |
| Ala | Cys | Gly | Asp | Leu | Thr | Phe | Asn | Asn | Trp | Leu | Gly | Leu | Ala | Met | Cys | | |
| 65 | | | | 70 | | | | | 75 | | | | | 80 | | | |
| Leu | Val | Thr | Val | Ile | Ser | Asp | Met | Ala | Leu | Leu | Gly | Thr | Ser | Tyr | Thr | | |
| | | | 85 | | | | | 90 | | | | | 95 | | | | |
| His | Ile | Ile | Tyr | Ala | Ala | Phe | Arg | Ile | Ser | Ser | Trp | Gly | Ala | Gln | Ala | | |
| | | 100 | | | | | 105 | | | | | | 110 | | | | |
| Lys | Ala | Leu | His | Thr | Cys | Gly | Ser | His | Leu | Leu | Val | Ile | Leu | Ser | Ile | | |
| | 115 | | | | | 120 | | | | | | 125 | | | | | |
| Tyr | Val | Ser | Gly | Leu | Ser | Thr | Ser | Ile | Thr | Phe | Xaa | Val | Ala | Lys | Thr | | |
| | 130 | | | | | 135 | | | | | 140 | | | | | | |
| Val | Ser | Gln | Asn | Val | Gln | Asn | Leu | Leu | Ser | Ala | Ile | Tyr | Leu | Leu | Leu | | |
| 145 | | | | 150 | | | | | 155 | | | | | 160 | | | |
| Pro | Gly | Ala | Leu | Asn | Pro | Val | Ile | Tyr | Gly | Val | Arg | Thr | Arg | Glu | Ile | | |
| | | | 165 | | | | | 170 | | | | | | 175 | | | |
| Gln | Gln | His | Val | Glu | Lys | Met | Leu | Cys | Glu | Lys | Glu | Thr | Ala | Gln | Lys | | |
| | | 180 | | | | | 185 | | | | | | 190 | | | | |
| Ala | Gly | Glu | Lys | Pro | Lys | | | | | | | | | | | | |
| | | 195 | | | | | | | | | | | | | | | |

<210> 1808

<211> 315

<212> PRT

<213> Unknown (H38g726 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(315)

<223> Xaa = Any Amino Acid

<400> 1808
Phe Ser Gln Asn Leu Leu Ile Ser Gly Ser Gly Ser Phe Val Leu Leu
1 5 10 15
Gly Met Pro Gly Leu Glu Ala Leu His Ala Trp Leu Ser Val Pro Val
20 25 30
Cys Leu Leu Tyr Met Ala Ala Leu Val Gly Asn Ala Leu Leu Val Gly
35 40 45
Leu Val Val Ala Asp Lys Ala Leu Trp Ala Pro Met Tyr Gln Leu Leu
50 55 60
Trp Leu Leu Ala Ala Ala Asp Phe Val Leu Ala Thr Ser Thr Val Pro
65 70 75 80
Lys Ala Leu Ala Val Leu Trp Gly Leu Ser Ser Glu Ile Ser Phe Gly
85 90 95
Gly Cys Leu Ala Gln Leu Phe Val Ala His Ser Val Asn His Cys His
100 105 110
Ile Ala Glu Ser Ser Val Leu Leu Ser Thr Ala Val Asp Cys Gln Pro
115 120 125
Leu Arg Tyr Gly Ala Leu Leu Ala Gln Phe Val Val Gly Leu Val Ala
130 135 140
Leu Thr Thr Met Thr Arg Asp Val Cys Val Met Tyr Thr Leu Xaa Phe
145 150 155 160
Leu Phe Lys Lys Leu Pro Tyr Cys Gly Gln Trp Ala Leu Pro His Thr
165 170 175
Tyr Cys Glu His Met Gly Val Ala Cys Leu Ala Cys Gly Asp Thr Cys
180 185 190
Pro Ile Ile Arg Tyr Gly Leu Ala Thr Thr Leu Leu Ser Pro Ala Leu
195 200 205
Asp Leu Gly Leu Ile Gly Ala Ser Tyr Ala Leu Ile Phe Arg Ala Val
210 215 220
Cys Arg Leu Pro Ser His Val Ala Cys His Lys Ala Leu Gly Asn Cys
225 230 235 240
Gly Thr Tyr Ala Ser Ile Ile Gly Leu Phe Tyr Thr Pro Ala Leu Phe
245 250 255
Ser Phe Leu Ala His Cys Phe Gly Cys His Thr Val Pro Asn His Ile
260 265 270
His Ile Leu Leu Ala Asn Leu Tyr Ala Val Val Phe Pro Ala Phe Asn
275 280 285
Pro Val Val Tyr Gly Val Gln Thr Gln Gln Ser Ser Glu Ala Gln Glu
290 295 300
Leu Ala Ser Thr Phe Leu Gly Arg Ser Ser Glu
305 310 315

<210> 1809

<211> 313

<212> PRT

<213> Unknown (H38g727 protein)

<220>

<223> Synthetic construct

<400> 1809
Met Asn Trp Glu Asn Glu Ser Ser Pro Lys Glu Phe Ile Leu Leu Gly
1 5 10 15
Phe Ser Asp Arg Ala Trp Leu Gln Met Pro Leu Phe Val Val Leu Leu
20 25 30
Ile Ser Tyr Thr Ile Thr Ile Phe Gly Asn Val Ser Ile Met Met Val
35 40 45
Cys Ile Leu Asp Pro Lys Leu His Thr Pro Met Tyr Phe Phe Leu Thr
50 55 60
Asn Leu Ser Ile Leu Asp Leu Cys Tyr Thr Thr Thr Val Pro His

```

65          70          75          80
Met Leu Val Asn Ile Gly Cys Asn Lys Lys Thr Ile Ser Tyr Ala Gly
      85          90          95
Cys Val Ala His Leu Ile Ile Phe Leu Ala Leu Gly Ala Thr Glu Cys
      100         105         110
Leu Leu Leu Ala Val Met Ser Phe Asp Arg Tyr Val Ala Val Cys Arg
      115         120         125
Pro Leu His Tyr Val Val Ile Met Asn Tyr Trp Phe Cys Leu Arg Met
      130         135         140
Ala Ala Phe Ser Trp Leu Ile Gly Phe Gly Asn Ser Val Leu Gln Ser
145         150         155         160
Ser Leu Thr Leu Asn Met Pro Arg Cys Gly His Gln Glu Val Asp His
      165         170         175
Phe Phe Cys Glu Val Pro Ala Leu Leu Lys Leu Ser Cys Ala Asp Thr
      180         185         190
Lys Pro Ile Glu Ala Glu Leu Phe Phe Ser Val Leu Ile Leu Leu
      195         200         205
Ile Pro Val Thr Leu Ile Leu Ile Ser Tyr Gly Phe Ile Ala Gln Ala
210         215         220
Val Leu Lys Ile Arg Ser Ala Glu Gly Arg Gln Lys Ala Phe Gly Thr
225         230         235         240
Cys Gly Ser His Met Ile Val Val Ser Leu Phe Tyr Gly Thr Ala Ile
      245         250         255
Tyr Met Tyr Leu Gln Pro Pro Ser Ser Thr Ser Lys Asp Trp Gly Lys
      260         265         270
Met Val Ser Leu Phe Tyr Gly Ile Ile Thr Ser Met Leu Asn Ser Leu
      275         280         285
Ile Tyr Ser Leu Arg Asn Lys Asp Met Lys Glu Ala Phe Lys Arg Leu
290         295         300
Met Pro Arg Ile Phe Phe Cys Lys Lys
305         310

```

<210> 1810

<211> 323

<212> PRT

<213> Unknown (H38g728 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(323)

<223> Xaa = Any Amino Acid

<400> 1810

```

Gly Thr Leu Asn Leu Ser Ser Phe Asn Pro Gly Leu Phe Ile Leu Leu
 1          5          10          15
Gly Ile Pro Gly Leu Glu Trp Phe Cys Ile Trp Met Gly Ile Leu Ser
      20         25         30
Phe Thr Ser Tyr Leu Val Ser Leu Ala Gly Asn Val Ile Leu Leu Tyr
      35         40         45
Leu Ile Thr Val Glu His Asn Leu His Lys Pro Met Phe Ser Phe Leu
50         55         60
Ser Ile Pro Ala Ser Ala Asn Leu Ile Leu Cys Ile Thr Tyr Phe Pro
65         70         75         80
Lys Thr Phe Gly Ile Phe Xaa Leu Lys Ala Gln Lys Ile Ile Phe Pro
      85         90         95
Gly Cys Phe Thr Arg Phe Phe Phe Phe Gly Leu Leu His Phe Ser Phe
100         105         110
Phe Leu Asp Leu Ala Ile Leu Leu Gly Leu Ala Phe Asp His Tyr Met
115         120         125

```

```

Thr Ile Gly Phe Leu Leu Arg Tyr Thr Ser Gly Leu Thr Pro Arg Thr
130                      135                      140
Leu Gly Lys Ile Val Val Ser Ile Asp Xaa Arg Phe Asn Asn Ile Leu
145                      150                      155                      160
Pro Ile Asp Phe Leu Gly Lys His Leu Pro Phe Cys Arg Thr His Ile
165                      170                      175
Asn Ser Asn Thr Tyr Cys Glu His Ile Gly Val Ala Leu Leu Ser Tyr
180                      185                      190
Ala Asp Ile Ser Ile Asn Ile Trp Tyr Asp Phe Thr Ile Leu Val Met
195                      200                      205
Thr Ile Ile Ser Asp Leu Ile Leu Thr Asp Ile Ser Tyr Thr Leu Thr
210                      215                      220
Leu His Ala Val Phe His Leu Pro Ser Ser Asp Ala Leu Leu Lys Ala
225                      230                      235                      240
Leu Ser Thr Cys Gly Ser His Val Ser Val Ile Leu Met Leu Tyr Thr
245                      250                      255
Pro Thr Met Leu Ser Ala Leu Thr His His Phe Gly Gln Ser Ile Ser
260                      265                      270
Cys Thr Phe Tyr Ile Met Phe Val Gly Leu Tyr Arg Ala Ile Pro Pro
275                      280                      285
Val Leu Asn Ser Ile Ile Tyr Gly Val Lys Thr Lys Gln Ile Gly Asn
290                      295                      300
Lys Val Ile Leu Leu Phe Leu Lys Gly Met Gln Xaa Tyr Glu Asp
305                      310                      315                      320
Glu Asn Met

```

<210> 1811

<211> 337

<212> PRT

<213> Unknown (H38g729 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(337)

<223> Xaa = Any Amino Acid

<400> 1811

```

Met Lys Lys Asn Ala Ser Phe Glu Asp Phe Phe Ile Leu Leu Gly Phe
1      5      10      15
Ser Asn Trp Pro His Leu Glu Val Val Leu Phe Val Val Ile Leu Ile
20     25     30
Phe Tyr Leu Ile Thr Leu Ile Gly Asn Leu Phe Ile Ile Ile Leu Ser
35     40     45
Tyr Leu Asp Ser His Leu His Thr Pro Met Tyr Phe Phe Leu Ser Asn
50     55     60
Leu Ser Phe Leu Asp Leu Cys Tyr Thr Thr Ser Ser Ile Pro Gln Leu
65     70     75     80
Leu Val Asn Leu Trp Gly Pro Glu Lys Thr Ile Ser Tyr Ala Gly Cys
85     90     95
Thr Val Gln Leu Tyr Phe Val Leu Ala Leu Gly Thr Ala Glu Cys Val
100    105    110
Leu Leu Val Val Met Ser Tyr Asp Arg Tyr Ala Ala Val Cys Arg Pro
115    120    125
Leu His Tyr Thr Val Leu Met His Pro Arg Phe Cys Arg Leu Leu Ala
130    135    140
Ala Ala Ser Trp Val Ser Gly Phe Thr Thr Ser Ala Leu His Ser Ser
145    150    155    160
Phe Thr Phe Trp Ile Pro Leu Cys Arg His Arg Leu Val Asp His Phe

```

```
<210> 1812
<211> 319
<212> PRT
<213> Unknown (H38g730 protein)
```

```
<220>
<223> Synthetic construct

<221> VARIANT
<222> (1)...(319)
<223> Xaa = Any Amino Acid
```

| | | | | | | | | | | | | | | | |
|------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| <400> 1812 | | | | | | | | | | | | | | | |
| Met | Ala | Met | Tyr | Asn | Met | Ser | Asp | His | Gly | Thr | Gly | Leu | Phe | Ile | Leu |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |
| Leu | Gly | Ile | Pro | Gly | Leu | Glu | Gln | Tyr | His | Val | Trp | Ile | Ser | Ile | Pro |
| | | | 20 | | | | | 25 | | | | | 30 | | |
| Phe | Cys | Leu | Ile | Tyr | Leu | Met | Ala | Val | Val | Ala | Lys | Ser | Ile | Leu | Leu |
| | | 35 | | | | | 40 | | | | | 45 | | | |
| Tyr | Leu | Ile | Val | Val | Glu | His | Ser | Leu | His | Ala | Pro | Met | Phe | Phe | Phe |
| | 50 | | | | | 55 | | | | | 60 | | | | |
| Leu | Ser | Met | Leu | Ala | Ile | Thr | Asp | Leu | Ile | Leu | Ser | Thr | Thr | Cys | Val |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |
| Pro | Lys | Thr | Leu | Ser | Ile | Phe | Trp | Phe | Gly | Pro | Gln | Ile | Ser | Phe | Pro |
| | | | | 85 | | | | | 90 | | | | | 95 | |
| Gly | Cys | Leu | Thr | Gln | Leu | Phe | Phe | Leu | His | Tyr | Ser | Phe | Val | Leu | Asp |
| | | | 100 | | | | | 105 | | | | | 110 | | |
| Ser | Ala | Ile | Leu | Leu | Ala | Met | Ala | Phe | Asp | Arg | Tyr | Met | Ala | Ile | Cys |
| | | 115 | | | | | 120 | | | | | 125 | | | |
| Ser | Pro | Leu | Arg | Tyr | Thr | Thr | Ile | Leu | Thr | Pro | Lys | Thr | Ile | Val | Lys |
| | | 130 | | | | 135 | | | | | 140 | | | | |
| Ile | Ala | Val | Gly | Ile | Cys | Phe | Arg | Ser | Phe | Cys | Val | Phe | Val | Pro | Cys |
| 145 | | | | | 150 | | | | | 155 | | | | | 160 |
| Val | Phe | Leu | Val | Asn | Arg | Leu | Pro | Phe | Cys | Arg | Thr | His | Ile | Ile | Ser |
| | | | | 165 | | | | | 170 | | | | | 175 | |
| His | Thr | Tyr | Cys | Glu | His | Ile | Gly | Val | Ala | Gln | Leu | Ala | Cys | Ala | Asp |
| | | | 180 | | | | | 185 | | | | | 190 | | |

Ile Ser Ile Asn Ile Trp Cys Gly Phe Cys Val Pro Ile Met Thr Val
 195 200 205
 Met Thr Asp Val Ile Leu Ile Ala Val Ser Tyr Thr Leu Met Leu Cys
 210 215 220
 Gly Val Phe Cys Leu Pro Ser Gln Asp Ala Arg Gln Lys Ala Leu Cys
 225 230 235 240
 Ser Cys Gly Ser His Val Cys Val Ile Leu Ile Phe Tyr Thr Pro Ala
 245 250 255
 Phe Phe Ser Ile Leu Ala His Arg Phe Gly His Asn Val Pro His Thr
 260 265 270
 Phe His Ile Met Phe Ala Asn Leu Tyr Val Ile Ile Pro Pro Ala Leu
 275 280 285
 Asn Pro Ile Val Tyr Arg Ile Lys Thr Lys Gln Ile Gln Asn Arg Ile
 290 295 300
 Leu Leu Leu Phe Pro Lys Gly Ser Gln Xaa Xaa Val Pro Glu Leu
 305 310 315

<210> 1813

<211> 311

<212> PRT

<213> Unknown (H38g731 protein)

<220>

<223> Synthetic construct

<400> 1813

Met Asn Asp Asp Gly Lys Val Asn Ala Ser Ser Glu Gly Tyr Phe Ile
 1 5 10 15
 Leu Val Gly Phe Ser Asn Trp Pro His Leu Glu Val Val Ile Phe Val
 20 25 30
 Val Val Leu Ile Phe Tyr Leu Met Thr Leu Ile Gly Asn Leu Phe Ile
 35 40 45
 Ile Ile Leu Ser Tyr Leu Asp Ser His Leu His Thr Pro Met Tyr Phe
 50 55 60
 Phe Leu Ser Asn Leu Ser Phe Leu Asp Leu Cys Tyr Thr Thr Ser Ser
 65 70 75 80
 Ile Pro Gln Leu Leu Val Asn Leu Trp Gly Pro Glu Lys Thr Ile Ser
 85 90 95
 Tyr Ala Gly Cys Met Ile Gln Leu Tyr Phe Val Leu Ala Leu Gly Thr
 100 105 110
 Thr Glu Cys Val Leu Leu Val Val Met Ser Tyr Asp Arg Tyr Ala Ala
 115 120 125
 Val Cys Arg Pro Leu His Tyr Thr Val Leu Met His Pro Arg Phe Cys
 130 135 140
 His Leu Leu Ala Val Ala Ser Trp Val Ser Gly Phe Thr Asn Ser Ala
 145 150 155 160
 Leu His Ser Ser Phe Thr Phe Trp Val Pro Leu Cys Gly His Arg Gln
 165 170 175
 Val Asp His Phe Phe Cys Glu Val Pro Ala Leu Leu Arg Leu Ser Cys
 180 185 190
 Val Asp Thr His Val Asn Glu Leu Thr Leu Met Ile Thr Ser Ser Ile
 195 200 205
 Phe Val Leu Ile Pro Leu Ile Leu Ile Leu Thr Ser Tyr Gly Ala Ile
 210 215 220
 Val Arg Ala Val Leu Arg Met Gln Ser Thr Thr Gly Leu Gln Lys Val
 225 230 235 240
 Phe Gly Thr Cys Gly Ala His Leu Met Ala Val Ser Leu Phe Phe Ile
 245 250 255
 Pro Ala Met Cys Ile Tyr Leu Gln Pro Pro Ser Gly Asn Ser Gln Asp
 260 265 270
 Gln Gly Lys Phe Ile Ala Leu Phe Tyr Thr Val Val Thr Pro Ser Leu

```

      275              280              285
Asn Pro Leu Ile Tyr Thr Leu Arg Asn Lys Val Val Arg Gly Ala Val
      290              295              300
Lys Arg Leu Met Gly Trp Glu
305              310

```

<210> 1814
 <211> 88
 <212> PRT
 <213> Unknown (H38g732 protein)

<220>
 <223> Synthetic construct

```

<400> 1814
Phe Ile His Ala Leu Ser Val Ile Glu Ser Ile Ile Val Leu Ala Met
 1              5              10              15
Ala Phe Glu Arg Tyr Val Ala Ile Cys His Pro Leu Cys His Ala Glu
      20              25              30
Val Leu Asn Ser Thr Val Thr Ala His Ile Gly Ile Val Ala Gly Val
      35              40              45
Arg Gly Ser Leu Phe Phe Ser Pro Leu Ala Leu Leu Ile Lys Thr Leu
      50              55              60
Gly Leu Cys His Ser Tyr Val Leu Ser His Ser Tyr Ser Leu His Gln
      65              70              75              80
Asp Val Ala Asn Leu Ser Tyr Ala
      85

```

<210> 1815
 <211> 159
 <212> PRT
 <213> Unknown (H38g733 protein)

<220>
 <223> Synthetic construct

```

<400> 1815
Val Ala Ile Cys Asn Pro Leu Arg Tyr Leu Thr Val Met Asn Pro Gln
 1              5              10              15
Leu Cys Leu Trp Leu Val Leu Ala Cys Trp Cys Gly Gly Phe Ile His
      20              25              30
Ser Ile Met Gln Val Ile Leu Val Ile Gln Leu Pro Phe Cys Gly Pro
      35              40              45
Asn Glu Leu Asp Asn Phe Tyr Cys Asp Val Leu Gln Ile Ile Lys Leu
      50              55              60
Ala Cys Met Asp Thr Tyr Val Val Glu Val Leu Val Ile Ala Asn Ser
      65              70              75              80
Gly Leu Leu Ser Leu Val Cys Phe Leu Val Leu Leu Phe Ser Tyr Ala
      85              90              95
Ile Ile Leu Ile Thr Leu Arg Thr Arg Phe Cys Gln Gly Gln Asn Lys
      100              105              110
Val Leu Ser Thr Cys Ala Ser His Leu Thr Val Val Ser Leu Ile Phe
      115              120              125
Val Pro Cys Val Phe Ile Tyr Leu Arg Pro Phe Cys Ser Phe Ser Val
      130              135              140
Asp Lys Ile Phe Ser Leu Phe Tyr Thr Val Ile Thr Pro Met Leu
      145              150              155

```

<210> 1816
 <211> 316
 <212> PRT

<213> Unknown (H38g734 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(316)

<223> Xaa = Any Amino Acid

<400> 1816

```

Met Ser Ala Pro Asn His Ser Thr Ala Asn His Asp Met Phe Val Leu
 1           5           10           15
Ile Gly Val Pro Gly Leu Lys Glu Leu His Val Trp Ile Ser Ile Pro
      20           25           30
Phe Cys Leu Met Tyr Leu Val Ala Val Ser Gly Asn Gly Leu Leu Val
      35           40           45
Cys Val Val Ala Val Glu His Ser Leu His Glu Pro Met Tyr Leu Phe
      50           55           60
Leu Ser Met Leu Ala Phe Trp Asp Leu Ile Leu Ser Thr Ser Ala Val
      65           70           75           80
Pro Lys Ala Leu Ser Ile Phe Trp Phe Asp Asp Val Asp Ile Ser Phe
      85           90           95
Gly Gly Cys Val Thr Gln Leu Phe Phe Met His Phe Ala Phe Val Ala
      100          105          110
Glu Ser Gly Ile Leu Leu Thr Met Ala Phe Asp Arg Tyr Val Ala Ile
      115          120          125
Cys Tyr Pro Leu Arg Tyr Ser Thr Ile Leu Ser His Ser Val Ile Gly
      130          135          140
Lys Ile Gly Gly Val Val Phe Arg Ser Phe Ala Thr Val Phe Ser
      145          150          155          160
Ile Val Phe Leu Val Lys Arg Leu Pro Phe Cys Arg Thr Asn Ile Ile
      165          170          175
Ala His Thr Phe Cys Glu His Met Gly Leu Ala Lys Leu Gly Cys Ser
      180          185          190
Glu Ile Thr Ile Asn Ile Trp Tyr Gly Ile Ser Val Pro Leu Leu Ser
      195          200          205
Val Thr Leu Asp Met Val Thr Ile Val Ile Ser Xaa Gly Leu Ile Val
      210          215          220
Gln Ala Val Phe Arg Leu Pro Ser Leu Gly Ala Trp Met Lys Ala Leu
      225          230          235          240
Ser Thr Cys Gly Ser His Gly Ser Val Ile Leu Met Phe Cys Leu Pro
      245          250          255
Gly Ile Phe Thr Val Ile Val Gln Arg Phe Ala Xaa Lys Phe Pro Lys
      260          265          270
Tyr Val His Ile Leu Leu Ala Asn Leu Tyr Val Leu Val Pro Pro Met
      275          280          285
Met Asn Pro Ile Ile Tyr Gly Val Lys Thr Lys Gln Ile Gln Lys Gly
      290          295          300
Val Ala Leu Val Phe Ser Pro Lys Gly Lys Cys Cys
      305          310          315

```

<210> 1817

<211> 364

<212> PRT

<213> Unknown (H38g735 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(364)

<223> Xaa = Any Amino Acid

<400> 1817

```

Met Pro Leu Thr Asn Glu Ser His Pro Glu Glu Phe Ile Leu Leu Gly
 1          5          10          15
Phe Ala Asp Arg Pro Trp Leu Glu Leu Pro Leu Phe Thr Ser Leu Leu
 20          25          30
Ile Met Tyr Pro Ile Ala Val Met Gly Asn Ile Thr Ile Ile Leu Met
 35          40          45
Ser Arg Leu Asp Ser Arg Leu His Ser Pro Met Tyr Phe Phe Leu Thr
 50          55          60
Asn Leu Ser Phe Leu Asp Met Cys Tyr Thr Thr Ser Ile Val Pro Gln
 65          70          75          80
Met Leu Phe Asn Leu Gly Ser Ser Lys Lys Thr Ile Ser Tyr Met Gly
 85          90          95
Cys Ala Val Gln Leu Tyr Phe Phe His Ile Met Gly Gly Thr Glu Cys
 100         105         110
Leu Leu Leu Ala Ile Met Ser Phe Asp Arg Tyr Val Ala Ile Cys Arg
 115         120         125
Pro Leu His Tyr Thr Leu Ile Met Asn Gln Arg Val Cys Ile His Xaa
 130         135         140
Phe Pro Pro Cys Trp Leu Ile Gly Ile Ile Tyr Ala Val Ser Glu Ala
 145         150         155         160
Thr Ala Thr Leu Gln Leu Pro Leu Cys Gly Ser Asn Lys Leu Asp His
 165         170         175
Leu Val Cys Glu Ile Pro Val Leu Ile Lys Ile Ala Cys Gly Glu Lys
 180         185         190
Gly Ser Asn Glu Leu Thr Leu Ser Val Val Cys Ile Phe Met Leu Ala
 195         200         205
Val Pro Leu Cys Leu Ile Leu Ala Ser Tyr Ala Ser Ile Gly Ser Ala
 210         215         220
Val Phe Lys Ile Lys Ser Ser Lys Gly Arg Lys Lys Ala Phe Gly Thr
 225         230         235         240
Cys Ser Ser His Leu Ile Val Val Phe Leu Phe Tyr Gly Pro Ala Ile
 245         250         255
Ser Met Tyr Leu Gln Pro Pro Ser Ser Ile Ser Arg Asp Gln Pro Lys
 260         265         270
Phe Met Ala Leu Phe Tyr Gly Val Val Thr Pro Ser Leu Asn Pro Phe
 275         280         285
Ile Tyr Thr Leu Arg Asn Lys Asn Val Lys Gly Ala Leu Arg Asn Leu
 290         295         300
Val Arg Ser Ile Phe Ser Phe Lys Xaa Xaa Trp Val Asp Ile Thr Met
 305         310         315         320
Lys Leu Leu Asn Ser Xaa Ser Arg Leu Leu Trp Phe Tyr Leu Thr Asn
 325         330         335
Ser Cys Leu Ile Ile Lys Tyr Arg Phe Thr Cys Ser Cys Lys Ile Cys
 340         345         350
Tyr Val Ser Glu Thr Leu Cys Lys His Val Gln Gln
 355         360

```

<210> 1818

<211> 166

<212> PRT

<213> Unknown (H38g736 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(166)

<223> Xaa = Any Amino Acid

<400> 1818

```

Phe Ile His Ala Leu Ser Ala Ile Glu Ser Thr Ile Leu Leu Ala Met
 1           5           10           15
Ala Phe Asp Arg Tyr Val Ala Ile Cys His Pro Leu Arg His Ala Ala
 20           25           30
Val Leu Asn Asn Thr Val Thr Ala Gln Ile Gly Ile Val Ala Val Val
 35           40           45
Arg Gly Ser Leu Phe Phe Phe Pro Leu Pro Leu Leu Ile Lys Arg Leu
 50           55           60
Ala Phe Cys His Ser Asn Val Leu Ser His Ser Tyr Cys Val His Gln
 65           70           75           80
Asp Val Leu Lys Leu Ala Tyr Ala Asp Thr Leu Pro Asn Val Val Tyr
 85           90           95
Gly Leu Thr Ala Ile Leu Leu Ala Met Gly Val Asp Ala Met Phe Ile
100           105           110
Ser Leu Ser Tyr Phe Leu Ile Ile Arg Thr Val Leu Gln Leu Pro Ser
115           120           125
Lys Ser Xaa Arg Ala Lys Ala Phe Gly Thr Cys Val Val His Ile Gly
130           135           140
Val Val Leu Gly Leu Tyr Val Pro Leu Ile Gly Thr Ser Ser Gly His
145           150           155           160
Arg Phe Gly Asn Lys Leu
           165

```

<210> 1819

<211> 312

<212> PRT

<213> Unknown (H38g737 protein)

<220>

<223> Synthetic construct

<400> 1819

```

Met Met Ile Lys Lys Asn Ala Ser Ser Glu Asp Phe Phe Ile Leu Leu
 1           5           10           15
Gly Phe Ser Asn Trp Pro Gln Leu Glu Val Val Leu Phe Val Val Ile
 20           25           30
Leu Ile Phe Tyr Leu Met Thr Leu Thr Gly Asn Leu Phe Ile Ile Ile
 35           40           45
Leu Ser Tyr Val Asp Ser His Leu His Thr Pro Met Tyr Phe Phe Leu
 50           55           60
Ser Asn Leu Ser Phe Leu Asp Leu Cys His Thr Ser Ser Ile Pro
 65           70           75           80
Gln Leu Leu Val Asn Leu Arg Gly Pro Glu Lys Thr Ile Ser Tyr Ala
 85           90           95
Gly Cys Met Val Gln Leu Tyr Phe Val Leu Ala Leu Gly Ile Ala Glu
100           105           110
Cys Val Leu Leu Val Val Met Ser Tyr Asp Arg Tyr Val Ala Val Cys
115           120           125
Arg Pro Leu His Tyr Thr Val Leu Met His Pro Arg Phe Cys His Leu
130           135           140
Leu Ala Ala Ala Ser Trp Val Ile Gly Phe Thr Ile Ser Ala Leu His
145           150           155           160
Ser Ser Phe Thr Phe Trp Val Pro Leu Cys Gly His Arg Leu Val Asp
           165           170           175
His Phe Phe Cys Glu Val Pro Ala Leu Leu Arg Leu Ser Cys Val Asp
           180           185           190
Thr His Ala Asn Glu Leu Thr Leu Met Val Met Ser Ser Ile Phe Val
           195           200           205
Leu Ile Pro Leu Ile Leu Ile Leu Thr Ala Tyr Gly Ala Ile Ala Arg

```

| | | |
|---|-----|-----|
| 210 | 215 | 220 |
| Ala Val Leu Ser Met Gln Ser Thr Thr Gly Leu Gln Lys Val Phe Arg | | |
| 225 | 230 | 235 |
| Thr Cys Gly Ala His Leu Met Val Val Ser Leu Phe Phe Ile Pro Val | | 240 |
| | 245 | 250 |
| Met Cys Met Tyr Leu Gln Pro Pro Ser Glu Asn Ser Pro Asp Gln Gly | | 255 |
| | 260 | 265 |
| Lys Phe Ile Ala Leu Phe Tyr Thr Val Val Thr Pro Ser Leu Asn Pro | | 270 |
| | 275 | 280 |
| Leu Ile Tyr Thr Leu Arg Asn Lys His Val Lys Gly Ala Ala Lys Arg | | 285 |
| | 290 | 295 |
| Leu Leu Gly Trp Glu Trp Gly Lys | | 300 |
| 305 | 310 | |

<210> 1820

<211> 151

<212> PRT

<213> Unknown (H38g738 protein)

<220>

<223> Synthetic construct

<400> 1820

| | |
|---|--|
| Arg Pro Leu Cys Ala Pro Arg Leu Leu Asp His Phe Ile Cys Glu Leu | |
| 1 5 10 15 | |
| Pro Ala Leu Leu Lys Leu Ala Cys Gly Gly Asp Gly Asp Thr Thr Glu | |
| 20 25 30 | |
| Asn Gln Met Phe Ala Ala Arg Val Val Ile Leu Leu Arg Gly Val Ala | |
| 35 40 45 | |
| Val Ile Leu Ala Ser Tyr Gly Ala Val Ala Arg Ala Val Cys Cys Met | |
| 50 55 60 | |
| Arg Phe Asn Gly Gly Arg Arg Arg Ala Val Gly Thr Cys Gly Ser His | |
| 65 70 75 80 | |
| Leu Thr Ala Val Cys Leu Phe Tyr Gly Ser Ala Ile Tyr Thr Tyr Leu | |
| 85 90 95 | |
| Gln Pro Ala Gln Arg Tyr Asn Gln Ala Arg Gly Lys Phe Val Ser Leu | |
| 100 105 110 | |
| Phe Tyr Thr Val Val Thr Pro Ala Leu Asn Pro Leu Ile Tyr Thr Leu | |
| 115 120 125 | |
| Arg Asn Lys Lys Met Lys Gly Ala Pro Arg Arg Leu Leu Arg Ser Leu | |
| 130 135 140 | |
| Gly Arg Gly Gln Ala Gly Gln | |
| 145 150 | |

<210> 1821

<211> 341

<212> PRT

<213> Unknown (H38g739 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(341)

<223> Xaa = Any Amino Acid

<400> 1821

| | |
|---|--|
| Met Met Glu Lys Val Asn Ala Ser Ser Glu Gly Tyr Phe Ile Leu Val | |
| 1 5 10 15 | |
| Gly Phe Ser Asn Trp Pro Tyr Leu Glu Val Val Leu Phe Val Val Ile | |
| 20 25 30 | |

Leu Ile Phe Cys Leu Met Thr Leu Ile Gly Asn Leu Phe Ile Ile Ile
 35 40 45
 Leu Thr Tyr Leu Asp Ser His Leu His Thr Pro Leu Tyr Phe Phe Leu
 50 55 60
 Ser Asn Leu Ser Phe Leu Asp Leu Cys Tyr Thr Thr Ser Ser Ile Pro
 65 70 75 80
 Gln Leu Leu Val Ser Leu Trp Gly Val Glu Lys Thr Ile Ser Tyr Ala
 85 90 95
 Gly Cys Met Val Gln Leu Tyr Phe Phe Leu Thr Leu Gly Thr Thr Glu
 100 105 110
 Cys Val Leu Leu Val Val Met Ser Tyr Asp Arg Tyr Ala Ala Val Cys
 115 120 125
 Arg Pro Leu His Tyr Thr Val Leu Met His Ser Arg Phe Cys His Leu
 130 135 140
 Leu Ala Val Ala Ser Trp Val Ser Gly Phe Thr Asn Pro Ala Leu His
 145 150 155 160
 Ser Ser Phe Thr Phe Trp Val Pro Leu Cys Gly His Arg Gln Ile Asp
 165 170 175
 His Phe Phe Cys Glu Val Pro Ala Leu Leu Xaa Leu Ser Phe Val Asn
 180 185 190
 Thr Arg Glu Asn Lys Leu Thr Leu Met Ile Thr Ser Ser Ile Phe Val
 195 200 205
 Leu Leu Leu Leu Thr Leu Ile Phe Thr Ser Tyr Gly Ala Ile Ala Gln
 210 215 220
 Ala Val Leu Arg Met Gln Ser Thr Thr Gly Leu Gln Lys Val Phe Gly
 225 230 235 240
 Thr Cys Gly Ala His His Met Val Val Ser Leu Phe Phe Ile Pro Ala
 245 250 255
 Met Cys Met Tyr Leu Gln Pro Pro Ser Gly Asn Ser Gln Asp Gln Gly
 260 265 270
 Lys Phe Ile Ala Leu Phe Tyr Thr Val Val Thr Pro Ser Leu Asn Pro
 275 280 285
 Leu Ile Tyr Thr Leu Arg Asn Lys Asp Val Arg Gly Val Val Lys Arg
 290 295 300
 Leu Arg Gly Trp Glu Xaa Ala Cys Val Cys Val Ile Leu Thr Ile Xaa
 305 310 315 320
 Trp Ser Leu Ser Ser Gln Xaa Phe Ile His Leu Phe Ile Tyr Gln Pro
 325 330 335
 Phe Phe Tyr Ser Leu
 340

<210> 1822

<211> 219

<212> PRT

<213> Unknown (H38g740 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(219)

<223> Xaa = Any Amino Acid

<400> 1822

Leu Pro Asp Ile Gly Phe Thr Ser Thr Thr Val Pro Lys Met Ile Val
 1 5 10 15
 Asp Ile Gln Ser His Ser Arg Val Ile Ser Tyr Ala Gly Cys Leu Thr
 20 25 30
 Gln Met Ser Leu Phe Ala Ile Phe Gly Gly Met Glu Asp Ser Ile Leu
 35 40 45
 Leu Ser Val Met Ala Tyr Asp Gln Phe Val Ala Lys Cys His Pro Leu

```

      50      55      60
Tyr His Ser Ala Ile Met Asn Pro Cys Leu Cys Gly Phe Leu Leu Leu
65      70      75      80
Leu Ser Ile Phe Phe Ser Leu Ser Leu Leu Asp Ala Gln Leu Tyr Asn
      85      90      95
Leu Ile Ala Leu Gln Met Thr Cys Phe Lys Asp Val Glu Ile Pro Asn
      100      105      110
Phe Phe Cys Asp Pro Ser Gln Leu Pro His Leu Ala Cys Cys Asp Thr
      115      120      125
Phe Asn Asn Asn Ile Ile Leu Tyr Phe Pro Asp Ala Ile Phe Gly Phe
      130      135      140
Leu Pro Ile Ser Gly Thr Leu Phe Ser Tyr Asp Lys Ile Val Ser Ser
145      150      155      160
Ile Leu Arg Val Ser Ser Ser Gly Gly Arg Tyr Lys Ala Leu Ser Thr
      165      170      175
Cys Gly Ser His Val Ser Val Val Cys Xaa Val Tyr Gly Thr Gly Val
      180      185      190
Gly Gly Tyr Leu Ser Ser Asp Val Ser Phe Ser Pro Arg Lys Gly Ala
      195      200      205
Val Ala Ser Val Met Tyr Ala Val Val Thr Pro
      210      215

```

<210> 1823

<211> 324

<212> PRT

<213> Unknown (H38g741 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(324)

<223> Xaa = Any Amino Acid

<400> 1823

```

Met Ile Ile Ile Cys Asn Asp Ser His Ser Asp Phe Ile Leu Leu Gly
1      5      10      15
Phe Ser Asn Lys Pro His Leu Glu Lys Ile Leu Phe Val Ile Ile Phe
      20      25      30
Ile Phe Tyr Phe Leu Thr Leu Ala Gly Asn Met Val Ile Val Leu Val
      35      40      45
Ser Leu Lys Asp Pro Lys Leu His Ile Pro Met Tyr Phe Phe Leu Ser
      50      55      60
Asn Leu Ser Leu Val Asp Leu Cys Leu Thr Ser Ser Cys Val Pro Gln
65      70      75      80
Met Leu Ile Asn Phe Trp Gly Pro Glu Lys Thr Ile Ser Tyr Ile Gly
      85      90      95
Cys Ala Ile Gln Leu Tyr Val Phe Leu Trp Leu Gly Ala Thr Glu Tyr
      100      105      110
Val Leu Leu Val Val Met Ala Val Asp Cys Tyr Val Ala Val Cys His
      115      120      125
Pro Leu Gln Asn Thr Met Ile Met His Pro Lys Leu Cys Leu Gln Leu
      130      135      140
Ala Ile Leu Ala Trp Gly Thr Gly Leu Ala Gln Ser Leu Ile Gln Ser
145      150      155      160
Pro Ala Thr Leu Arg Leu Pro Phe Cys Ser Gln Arg Met Val Asp Asp
      165      170      175
Val Val Cys Glu Val Pro Ala Leu Ile Gln Leu Ser Ser Thr Asp Thr
      180      185      190
Thr Tyr Ser Glu Ile Gln Met Ser Ile Ala Ser Val Val Leu Leu Val
      195      200      205

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Met Pro Leu Ile Ile Ile Leu Ser Ser Ser Gly Ala Ile Ala Lys Ala
 210 215 220
 Val Leu Arg Ile Lys Ser Thr Ala Gly Gln Lys Lys Ala Phe Gly Thr
 225 230 235 240
 Cys Ile Ser His Leu Leu Val Val Ser Leu Phe Tyr Gly Thr Val Thr
 245 250 255
 Gly Val Tyr Leu Gln Pro Lys Asn His Tyr Pro His Glu Trp Gly Lys
 260 265 270
 Phe Leu Thr Leu Phe Tyr Thr Val Val Thr Pro Thr Leu Asn Pro Leu
 275 280 285
 Ile Tyr Thr Leu Arg Asn Lys Glu Val Lys Gly Ala Leu Ile Arg Leu
 290 295 300
 Gly Arg Arg Thr Trp Asp Ser Gln Asn Asn Xaa Gln Gly Xaa His Met
 305 310 315 320
 Phe Thr Phe Ala

<210> 1824

<211> 218

<212> PRT

<213> Unknown (H38g742 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(218)

<223> Xaa = Any Amino Acid

<400> 1824

Leu Pro Asp Ile Gly Phe Thr Leu Ala Thr Val Pro Lys Met Met Val
 1 5 10 15
 Asp Met Gln Ser His Ser Arg Val Ile Ser His Ala Gly Cys Leu Thr
 20 25 30
 Gln Ile Pro Phe Phe Val Leu Phe Val Cys Ile Asp Asp Met Leu Leu
 35 40 45
 Thr Val Met Ala Tyr Asn Xaa Phe Val Ala Ile Cys His Pro Leu His
 50 55 60
 Tyr Pro Val Ile Met Asn Pro His Leu Cys Val Phe Leu Val Leu Val
 65 70 75 80
 Ser Phe Phe Leu Ser Leu Leu Asp Ser Gln Leu His Ser Trp Ile Val
 85 90 95
 Leu Gln Gln Leu Thr Phe Phe Lys Asn Val Glu Ile Ser Xaa Phe Phe
 100 105 110
 Phe Cys Asp Pro Ser Gln Leu Leu Asn Leu Ala Cys Ser Asp Ser Ile
 115 120 125
 Ile Asn Asn Ile Leu Cys Ile Leu Asp Ile Pro Ile Phe Gly Phe Leu
 130 135 140
 Pro Ile Ser Gly Ile Leu Leu Ser Tyr Tyr Lys Ile Val Ser Ser Ile
 145 150 155 160
 Pro Arg Ile Pro Ser Ser Asp Gly Lys Tyr Lys Ala Phe Ser Thr Cys
 165 170 175
 Gly Ser His Leu Ala Val Val Cys Leu Phe Tyr Gly Thr Gly Leu Val
 180 185 190
 Gly Tyr Leu Ser Ser Ala Val Leu Pro Ser Pro Arg Lys Ser Met Val
 195 200 205
 Ala Ser Val Met Tyr Thr Val Val Thr Pro
 210 215

<210> 1825

<211> 124

<212> PRT
 <213> Unknown (H38g743 protein)

<220>
 <223> Synthetic construct

<221> VARIANT
 <222> (1)...(124)
 <223> Xaa = Any Amino Acid

<400> 1825
 Phe Leu Leu Xaa Ala Asn Tyr Ser Ala Glu Glu Arg Phe Leu Leu Leu
 1 5 10 15
 Gly Phe Ser Asp Trp Pro Ser Leu Gln Pro Val Leu Phe Ala Leu Val
 20 25 30
 Leu Leu Cys Tyr Leu Leu Thr Leu Thr Gly Asn Ser Ala Leu Val Leu
 35 40 45
 Leu Ala Glu Lys Asp Pro Arg Leu Gln Thr Pro Arg Cys Met Asn Tyr
 50 55 60
 Phe Leu Cys His Leu Ala Leu Val Asp Ala Gly Phe Thr Thr Ser Val
 65 70 75 80
 Val Pro Pro Leu Leu Ala Asn Leu Arg Gly Pro Ala Leu Leu Xaa Pro
 85 90 95
 Arg Ser His Cys Thr Ala Gln Leu Cys Ala Ser Leu Ala Leu Gly Ser
 100 105 110
 Ala Glu Cys Val Leu Leu Ala Val Met Ala Leu Glu
 115 120

<210> 1826
 <211> 216
 <212> PRT
 <213> Unknown (H38g744 protein)

<220>
 <223> Synthetic construct

<400> 1826
 Ile Leu Glu Ile Ser Phe Thr Thr Val Ser Ile Pro Lys Phe Leu Gly
 1 5 10 15
 Asn Ile Ile Ser Gly Asp Lys Thr Ile Ser Phe Asn Asn Cys Ile Val
 20 25 30
 Gln Leu Phe Phe Phe Ile Leu Leu Gly Val Thr Glu Phe Tyr Leu Leu
 35 40 45
 Ala Ala Met Ser Tyr Asp Arg Tyr Val Ala Ile Cys Lys Pro Leu His
 50 55 60
 Tyr Leu Ser Ile Met Asn Arg Arg Val Cys Thr Leu Leu Val Phe Thr
 65 70 75 80
 Ser Trp Leu Val Ser Phe Leu Ile Ile Phe Pro Ala Leu Met Leu Leu
 85 90 95
 Leu Lys Leu Asp Tyr Cys Arg Ser Asn Ile Ile Asp His Phe Thr Cys
 100 105 110
 Asp Tyr Phe Pro Leu Leu Gln Leu Ala Cys Ser Asp Thr Lys Phe Leu
 115 120 125
 Glu Val Met Gly Phe Ser Cys Ala Ala Phe Thr Leu Met Phe Thr Leu
 130 135 140
 Ala Leu Ile Phe Leu Ser Tyr Ile Tyr Ile Ile Arg Thr Ile Leu Arg
 145 150 155 160
 Ile Pro Ser Thr Ser Gln Arg Thr Lys Ala Phe Ser Thr Cys Ser Ser
 165 170 175
 His Met Val Val Ile Ser Ile Ser Tyr Gly Ser Cys Ile Phe Met Tyr
 180 185 190

Ile Lys Pro Ser Ala Lys Asp Arg Val Ser Leu Ser Lys Gly Val Ala
 195 200 205
 Ile Leu Asn Thr Ser Val Ala Pro
 210 215

<210> 1827
 <211> 219
 <212> PRT
 <213> Unknown (H38g745 protein)

<220>
 <223> Synthetic construct

<221> VARIANT
 <222> (1)...(219)
 <223> Xaa = Any Amino Acid

<400> 1827
 Phe Pro Asp Ile Gly Phe Thr Ser Thr Thr Val Pro Lys Met Ile Val
 1 5 10 15
 Asp Ile Gln Ser His Ser Arg Val Ile Ser Tyr Ala Gly Cys Leu Thr
 20 25 30
 Gln Met Ser Leu Phe Ala Ile Phe Gly Gly Met Glu Glu Asn Met Leu
 35 40 45
 Leu Ser Val Met Ala Tyr Asp Arg Phe Val Ala Ile Cys His Pro Leu
 50 55 60
 Tyr Arg Ser Ala Ile Leu Asn Pro Cys Phe Cys Gly Phe Leu Asp Leu
 65 70 75 80
 Leu Ser Phe Phe Phe Ser Leu Ser Leu Leu Asp Ser Gln Leu His Asn
 85 90 95
 Leu Ile Ala Leu Gln Met Thr Cys Phe Lys Asp Val Glu Ile Pro Asn
 100 105 110
 Phe Phe Cys Asp Pro Ser Gln Leu Pro His Leu Ala Cys Cys Asp Thr
 115 120 125
 Phe Thr Asn Asn Ile Ile Met Tyr Phe Pro Ala Ala Ile Phe Gly Phe
 130 135 140
 Leu Gln Ile Ser Gly Thr Leu Phe Ser Tyr Tyr Lys Ile Val Ser Ser
 145 150 155 160
 Ile Leu Arg Val Ser Ser Ser Gly Gly Asn Tyr Lys Ala Phe Ser Thr
 165 170 175
 Cys Gly Ser His Leu Ser Val Val Cys Xaa Phe Tyr Gly Thr Gly Val
 180 185 190
 Gly Gly Tyr Leu Ser Ser Asp Val Ser Ser Ser Leu Arg Lys Ala Ala
 195 200 205
 Val Ala Ser Val Met Tyr Met Val Val Thr Pro
 210 215

<210> 1828
 <211> 268
 <212> PRT
 <213> Unknown (H38g746 protein)

<220>
 <223> Synthetic construct

<400> 1828
 Met Met Ala Leu Ile Phe Thr Asp Ser His Leu Gln Ser Pro Met Tyr
 1 5 10 15
 Phe Phe Leu Asn Val Leu Ser Phe Leu Asp Ile Cys Tyr Ser Ser Val
 20 25 30
 Val Thr Pro Lys Leu Leu Val Asn Phe Leu Val Ser Asp Lys Ser Ile

```

      35      40      45
Ser Phe Glu Gly Cys Val Val Gln Leu Ala Phe Phe Val Val His Val
      50      55      60
Thr Ala Glu Ser Phe Leu Leu Ala Ser Met Ala Tyr Asp Arg Phe Leu
      65      70      75      80
Ala Ile Cys Gln Pro Leu His Tyr Gly Ser Ile Met Thr Arg Gly Thr
      85      90      95
Cys Leu Gln Leu Val Ala Val Ser Tyr Ala Phe Gly Gly Ala Asn Ser
      100      105      110
Ala Ile Gln Thr Gly Asn Val Phe Ala Leu Pro Phe Cys Gly Pro Asn
      115      120      125
Gln Leu Thr His Tyr Tyr Cys Asp Ile Pro Pro Leu Leu His Leu Ala
      130      135      140
Cys Ala Asn Thr Ala Thr Ala Arg Val Val Leu Tyr Val Phe Ser Ala
      145      150      155      160
Leu Val Thr Leu Leu Pro Ala Ala Val Ile Leu Thr Ser Tyr Cys Leu
      165      170      175
Val Leu Val Ala Ile Gly Arg Met Arg Ser Val Ala Gly Arg Glu Lys
      180      185      190
Asp Leu Ser Thr Cys Ala Ser His Phe Leu Ala Ile Ala Ile Phe Tyr
      195      200      205
Gly Thr Val Val Phe Thr Tyr Val Gln Pro His Gly Ser Thr Asn Asn
      210      215      220
Thr Asn Gly Gln Val Val Ser Val Phe Tyr Thr Ile Ile Ile Pro Met
      225      230      235      240
Leu Asn Pro Phe Ile Tyr Ser Leu Arg Asn Lys Glu Val Lys Gly Ala
      245      250      255
Leu Gln Arg Lys Leu Gln Val Asn Ile Phe Pro Gly
      260      265

```

<210> 1829

<211> 316

<212> PRT

<213> Unknown (H38g747 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(316)

<223> Xaa = Any Amino Acid

<400> 1829

```

Met Asp Leu Gly Asn Gln Thr Arg Val Ser Glu Phe Leu Leu Leu Gly
      1      5      10      15
Phe Ser Gln Asp Leu Glu Asp Gln Gln Leu Leu Phe Ala Leu Phe Leu
      20      25      30
Ser Met Tyr Leu Val Thr Val Leu Gly Asn Leu Leu Ile Ile Leu Ala
      35      40      45
Ile Ser Ser Asp Ser His Leu His Thr Pro Arg Tyr Phe Phe Leu Ser
      50      55      60
Asn Leu Ser Leu Ala Asp Ile Gly Phe Thr Ser Thr Ala Val Pro Lys
      65      70      75      80
Met Leu Val Asn Ile Gln Val Gln Ser Asn Ala Ile Ser Tyr Ala Asp
      85      90      95
Cys Ile Ala Gln Met Tyr Phe Phe Met Val Phe Gly Gly Met Asp Thr
      100      105      110
Phe Leu Leu Thr Val Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys His
      115      120      125
Pro Leu Tyr Tyr Cys Val Thr Arg Asn Pro Cys Leu Cys Gly Leu Leu
      130      135      140

```

Val Leu Val Ser Trp Phe Leu Ser Leu Ser Tyr Ser Leu Ile Gln Ser
 145 150 155 160
 Leu Leu Val Leu Arg Val Ser Phe Cys Thr Ser Xaa Val Ile Gln His
 165 170 175
 Phe Tyr Cys Glu Leu Ala Gln Val Leu Arg Leu Thr Cys Ser Asp Thr
 180 185 190
 His Val Asn Tyr Ile Leu Leu Tyr Val Val Ala Gly Leu Leu Asp Phe
 195 200 205
 Val Pro Phe Ser Gly Ile Leu Phe Ser Tyr Thr Gln Ile Val Ser Tyr
 210 215 220
 Ile Leu Arg Ile Ser Ser Thr Asp Gly Lys His Lys Ala Phe Ser Thr
 225 230 235 240
 Cys Gly Ser His Leu Phe Val Val Ser Leu Phe Tyr Gly Thr Gly Leu
 245 250 255
 Gly Val Tyr Leu Ser Ser Asn Ala Ser Ser Ser Trp Trp Gly Met
 260 265 270
 Val Ala Ser Val Met Tyr Thr Val Val Thr Pro Met Leu Asn Pro Phe
 275 280 285
 Ile Tyr Cys Leu Arg Asn Arg Asp Ile Lys Arg Thr Leu Glu Thr Leu
 290 295 300
 Leu Gly Arg Met Leu Tyr Ala Gln Xaa Arg Gly His
 305 310 315

<210> 1830

<211> 309

<212> PRT

<213> Unknown (H38g748 protein)

<220>

<223> Synthetic construct

<400> 1830

Met Glu Asn Cys Thr Glu Val Thr Lys Phe Ile Leu Leu Gly Leu Thr
 1 5 10 15
 Ser Val Pro Glu Leu Gln Ile Pro Leu Phe Ile Leu Phe Thr Phe Ile
 20 25 30
 Tyr Leu Leu Thr Leu Cys Gly Asn Leu Gly Met Met Leu Leu Ile Leu
 35 40 45
 Met Asp Ser Cys Leu His Thr Pro Met Tyr Phe Phe Leu Ser Asn Leu
 50 55 60
 Ser Leu Val Asp Phe Gly Tyr Ser Ser Ala Val Thr Pro Lys Val Met
 65 70 75 80
 Ala Gly Phe Leu Arg Gly Asp Lys Val Ile Ser Tyr Asn Ala Cys Ala
 85 90 95
 Val Gln Met Phe Phe Phe Val Ala Leu Ala Thr Val Glu Asn Tyr Leu
 100 105 110
 Leu Ala Ser Met Ala Tyr Asp Arg Tyr Ala Ala Val Cys Lys Pro Leu
 115 120 125
 His Tyr Thr Thr Thr Met Thr Ala Ser Val Gly Ala Cys Leu Ala Leu
 130 135 140
 Gly Ser Tyr Val Cys Gly Phe Leu Asn Ala Ser Phe His Ile Gly Gly
 145 150 155 160
 Ile Phe Ser Leu Ser Phe Cys Lys Ser Asn Leu Val His His Phe Phe
 165 170 175
 Cys Asp Val Pro Ala Val Met Ala Leu Ser Cys Ser Asp Lys His Thr
 180 185 190
 Ser Glu Val Ile Leu Val Phe Thr Ser Ser Phe Asn Ile Phe Phe Val
 195 200 205
 Leu Leu Val Ile Phe Ile Ser Tyr Leu Phe Ile Phe Ile Thr Ile Leu
 210 215 220
 Lys Met His Ser Ala Lys Gly His Gln Lys Ala Leu Ser Thr Cys Ala

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<210> 1831
<211> 313
<212> PRT
<213> Unknown (H38g749 protein)
```

<220>
<223> Synthetic construct

1032

<210> 1832
 <211> 314
 <212> PRT
 <213> Unknown (H38g750 protein)

<220>
 <223> Synthetic construct

<400> 1832
 Met Glu Asn Lys Thr Glu Val Thr Gln Phe Ile Leu Leu Gly Leu Thr
 1 5 10 15
 Asn Asp Ser Glu Leu Gln Val Pro Leu Phe Ile Thr Phe Pro Phe Ile
 20 25 30
 Tyr Ile Ile Thr Leu Val Gly Asn Leu Gly Ile Ile Val Leu Ile Phe
 35 40 45
 Trp Asp Ser Cys Leu His Asn Pro Met Tyr Phe Phe Leu Ser Asn Leu
 50 55 60
 Ser Leu Val Asp Phe Cys Tyr Ser Ser Ala Val Thr Pro Ile Val Met
 65 70 75 80
 Ala Gly Phe Leu Ile Glu Asp Lys Val Ile Ser Tyr Asn Ala Cys Ala
 85 90 95
 Ala Gln Met Tyr Ile Phe Val Ala Phe Ala Thr Val Glu Asn Tyr Leu
 100 105 110
 Leu Ala Ser Met Ala Tyr Asp Arg Tyr Ala Ala Val Cys Lys Pro Leu
 115 120 125
 His Tyr Thr Thr Thr Met Thr Thr Thr Val Cys Ala Arg Leu Ala Ile
 130 135 140
 Gly Ser Tyr Leu Cys Gly Phe Leu Asn Ala Ser Ile His Thr Gly Asp
 145 150 155 160
 Thr Phe Ser Leu Ser Phe Cys Lys Ser Asn Glu Val His His Phe Phe
 165 170 175
 Cys Asp Ile Pro Ala Val Met Val Leu Ser Cys Ser Asp Arg His Ile
 180 185 190
 Ser Glu Leu Val Leu Ile Tyr Val Val Ser Phe Asn Ile Phe Ile Ala
 195 200 205
 Leu Leu Val Ile Leu Ile Ser Tyr Thr Phe Ile Phe Ile Thr Ile Leu
 210 215 220
 Lys Met His Ser Ala Ser Val Tyr Gln Lys Pro Leu Ser Thr Cys Ala
 225 230 235 240
 Ser His Phe Ile Ala Val Gly Ile Phe Tyr Gly Thr Ile Ile Phe Met
 245 250 255
 Tyr Leu Gln Pro Ser Ser Ser His Ser Met Asp Thr Asp Lys Met Ala
 260 265 270
 Pro Val Phe Tyr Thr Met Val Ile Pro Met Leu Asn Pro Leu Val Tyr
 275 280 285
 Ser Leu Arg Asn Lys Glu Val Lys Ser Ala Phe Lys Lys Val Val Glu
 290 295 300
 Lys Ala Lys Leu Ser Val Gly Trp Ser Val
 305 310

<210> 1833
 <211> 312
 <212> PRT
 <213> Unknown (H38g751 protein)

<220>
 <223> Synthetic construct

<400> 1833
 Met Asn Asn Ser Asp Thr Arg Ile Ala Gly Cys Phe Leu Thr Gly Ile

| | | | |
|---|-----|-----|-----|
| 1 | 5 | 10 | 15 |
| Pro Gly Leu Glu Gln Leu His Ile Trp Leu Ser Ile Pro Phe Cys Ile | | | |
| | 20 | 25 | 30 |
| Met Tyr Ile Ala Ala Leu Glu Gly Asn Gly Ile Leu Ile Cys Val Ile | | | |
| | 35 | 40 | 45 |
| Leu Ser Gln Ala Ile Leu His Glu Pro Met Tyr Ile Phe Leu Ser Met | | | |
| | 50 | 55 | 60 |
| Leu Ala Ser Ala Asp Val Leu Leu Ser Thr Thr Met Pro Lys Ala | | | |
| 65 | 70 | 75 | 80 |
| Leu Ala Asn Leu Trp Leu Gly Tyr Ser His Ile Ser Phe Asp Gly Cys | | | |
| | 85 | 90 | 95 |
| Leu Thr Gln Lys Phe Phe Ile His Phe Leu Phe Ile His Ser Ala Val | | | |
| | 100 | 105 | 110 |
| Leu Leu Ala Met Ala Phe Asp Arg Tyr Val Ala Ile Cys Ser Pro Leu | | | |
| | 115 | 120 | 125 |
| Arg Tyr Val Thr Ile Leu Thr Ser Lys Val Ile Gly Lys Ile Val Thr | | | |
| | 130 | 135 | 140 |
| Ala Thr Leu Ser Arg Ser Phe Ile Ile Met Phe Pro Ser Ile Phe Leu | | | |
| 145 | 150 | 155 | 160 |
| Leu Glu His Leu His Tyr Cys Gln Ile Asn Ile Ile Ala His Thr Phe | | | |
| | 165 | 170 | 175 |
| Cys Glu His Met Gly Ile Ala His Leu Ser Cys Ser Asp Ile Ser Ile | | | |
| | 180 | 185 | 190 |
| Asn Val Trp Tyr Gly Leu Ala Ala Ala Leu Leu Ser Thr Gly Leu Asp | | | |
| | 195 | 200 | 205 |
| Ile Met Leu Ile Thr Val Ser Tyr Ile His Ile Leu Gln Ala Val Phe | | | |
| | 210 | 215 | 220 |
| Arg Leu Leu Ser Gln Asp Ala Arg Ser Lys Ala Leu Ser Thr Cys Gly | | | |
| 225 | 230 | 235 | 240 |
| Ser His Ile Cys Val Ile Leu Leu Phe Tyr Val Pro Ala Leu Phe Ser | | | |
| | 245 | 250 | 255 |
| Val Phe Ala Tyr Arg Phe Gly Gly Arg Ser Ile Pro Cys Tyr Val His | | | |
| | 260 | 265 | 270 |
| Ile Leu Leu Ala Ser Leu Tyr Val Val Ile Pro Pro Met Leu Asn Pro | | | |
| | 275 | 280 | 285 |
| Val Ile Tyr Gly Val Arg Thr Lys Pro Ile Leu Glu Gly Ala Lys Gln | | | |
| | 290 | 295 | 300 |
| Met Phe Ser Asn Leu Ala Lys Gly | | | |
| 305 | 310 | | |

<210> 1834

<211> 332

<212> PRT

<213> Unknown (H38g752 protein)

<220>

<223> Synthetic construct

<400> 1834

| | | | |
|---|----|----|----|
| Ser Ile Leu Phe Leu Tyr Phe Ser Leu Leu Gln Ala Ser Ser Asp Phe | | | |
| 1 | 5 | 10 | 15 |
| Leu Ile Thr Leu Met Lys Asn Cys Thr Glu Val Thr Glu Phe Ile Leu | | | |
| | 20 | 25 | 30 |
| Leu Gly Leu Thr Asn Ala Pro Glu Leu Gln Val Pro Leu Leu Ile Met | | | |
| | 35 | 40 | 45 |
| Phe Thr Leu Ile Tyr Leu Val Asn Val Val Gly Asn Leu Gly Met Ile | | | |
| | 50 | 55 | 60 |
| Val Leu Ile Val Trp Asp Ile His Leu His Thr Pro Met Tyr Phe Phe | | | |
| 65 | 70 | 75 | 80 |
| Leu Ser His Leu Ser Leu Val Asp Phe Cys Tyr Ser Ser Ala Val Thr | | | |
| | 85 | 90 | 95 |

Pro Thr Val Ile Ala Gly Leu Val Ile Gly Asp Lys Val Ile Ser Tyr
 100 105 110
 Asn Ala Cys Ala Ala Gln Met Phe Phe Phe Ala Ala Phe Ala Thr Val
 115 120 125
 Glu Asn Phe Leu Leu Ala Ser Met Ala Tyr Asp Arg Tyr Asp Ala Val
 130 135 140
 Cys Lys Pro Leu His Tyr Thr Thr Thr Met Thr Thr Ser Val Cys Ala
 145 150 155 160
 Cys Leu Ala Ile Ile Cys Tyr Val Cys Gly Phe Leu Asn Ala Ser Ile
 165 170 175
 His Ile Gly Glu Thr Phe Ser Leu Ser Phe Cys Met Ser Asn Glu Val
 180 185 190
 His Cys Phe Phe Cys Asp Val Pro Pro Val Met Ala Leu Ser Cys Cys
 195 200 205
 Asp Arg His Val Asn Glu Leu Val Leu Ile Tyr Val Ala Ser Phe Asn
 210 215 220
 Ile Phe Ser Ala Ile Leu Val Ile Leu Ile Ser Tyr Leu Phe Ile Phe
 225 230 235 240
 Ile Thr Ile Leu Lys Met His Ser Ala Ser Gly Tyr Gln Lys Ala Leu
 245 250 255
 Ser Thr Cys Ala Ser His Leu Thr Ala Val Ile Ile Phe Tyr Gly Thr
 260 265 270
 Ile Ile Phe Met Tyr Leu Gln Pro Ser Ser Gly His Ser Met Asp Thr
 275 280 285
 Asp Lys Leu Ala Ser Val Phe Tyr Thr Met Ile Ile Pro Met Leu Asn
 290 295 300
 Pro Leu Val Tyr Ser Leu Arg Asn Asn Glu Val Lys Ser Ala Phe Lys
 305 310 315 320
 Lys Val Ile Glu Lys Ala Lys Leu Ser Leu Leu Leu
 325 330

<210> 1835

<211> 318

<212> PRT

<213> Unknown (H38g753 protein)

<220>

<223> Synthetic construct

<400> 1835

Met Ser Asp Ser Asn Leu Ser Asp Asn His Leu Pro Asp Thr Phe Phe
 1 5 10 15
 Leu Thr Gly Ile Pro Gly Leu Glu Ala Ala His Phe Trp Ile Ala Ile
 20 25 30
 Pro Phe Cys Ala Met Tyr Leu Val Ala Leu Val Gly Asn Ala Ala Leu
 35 40 45
 Ile Leu Val Ile Ala Met Asp Asn Ala Leu His Ala Pro Met Tyr Leu
 50 55 60
 Phe Leu Cys Leu Leu Ser Leu Thr Asp Leu Ala Leu Ser Ser Thr Thr
 65 70 75 80
 Val Pro Lys Met Leu Ala Ile Leu Trp Leu His Ala Gly Glu Ile Ser
 85 90 95
 Phe Gly Gly Cys Leu Ala Gln Met Phe Cys Val His Ser Ile Tyr Ala
 100 105 110
 Leu Glu Ser Ser Ile Leu Leu Ala Met Ala Phe Asp Arg Tyr Val Ala
 115 120 125
 Ile Cys Asn Pro Leu Arg Tyr Thr Thr Ile Leu Asn His Ala Val Ile
 130 135 140
 Gly Arg Ile Gly Phe Val Gly Leu Phe Arg Ser Val Ala Ile Val Ser
 145 150 155 160
 Pro Phe Ile Phe Leu Leu Arg Arg Leu Pro Tyr Cys Gly His Arg Val

| | | | | | | | | | | | | | | | | |
|------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|-----|
| <400> 1836 | | | | | | | | | | | | | | | | |
| His 1 | Ile | Glu | Pro | Gly 5 | Asn | Asp | Thr | Gln | Ile 10 | Ser | Glu | Phe | Leu | Leu 15 | Leu | Leu |
| Gly | Leu | Ser | Asp 20 | Lys | Pro | Glu | Leu | Gln 25 | Pro | Phe | Leu | Phe | Gly 30 | Leu | Phe | Phe |
| Phe | Ser | Met 35 | Tyr | Leu | Val | Thr | Val 40 | Leu | Gly | Asn | Leu | Leu 45 | Ile | Ile | Leu | Leu |
| Ala | Thr 50 | Ile | Ser | Asp | Ser | His 55 | Leu | His | Thr | Pro | Val 60 | Tyr | Phe | Phe | Leu | Leu |
| Ser 65 | Asn | Leu | Ser | Phe | Ala 70 | Asp | Ile | Cys | Phe | Ile 75 | Ser | Thr | Thr | Ile | Pro 80 | Pro |
| Lys | Met | Leu | Val | Asn 85 | Ile | Gln | Thr | Gln | Ser 90 | Arg | Val | Ile | Thr | Tyr 95 | Ala | Ala |
| Gly | Cys | Ile | Thr 100 | Gln | Met | Cys | Phe | Phe 105 | Val | Leu | Leu | Glu | Ala 110 | Leu | Asp | Asp |
| Ser | Leu | Leu 115 | Leu | Thr | Val | Met | Ala 120 | Tyr | Asp | Gln | Phe | Val 125 | Ala | Ile | Cys | Cys |
| His | Pro 130 | Leu | His | Tyr | Met | Val 135 | Ile | Met | Ser | Pro | Trp 140 | Phe | Cys | Gly | Leu | Leu |
| Leu 145 | Val | Leu | Ala | Ser | Trp 150 | Ile | Ile | Met | Ser | Pro | Trp 155 | Leu | Cys | Gly | Leu 160 | Leu |
| Leu | Val | Leu | Ala 165 | Ser | Trp | Ile | Ile | Ser | Asp 170 | Leu | Asp | Ser | Ser | Leu 175 | His | His |
| Ser | Leu | Met 180 | Val | Leu | Ser | Leu | Pro | Phe 185 | Cys | Thr | Asp | Phe | Gln 190 | Ile | Pro | Pro |
| His | Phe 195 | Val | Tyr | Glu | Leu | Asn | Gln 200 | Val | Ile | Arg | Leu | Ala 205 | Gly | Ser | Asp | Asp |
| Thr | Phe 210 | Leu | Asn | Asp | Met | Ala 215 | Met | Tyr | Phe | Ala | Val 220 | Gly | Pro | Leu | Gly | Gly |
| Gly 225 | Val | Pro | Leu | Ala | Gly 230 | Ile | Leu | Tyr | Leu | Tyr 235 | Cys | Lys | Ile | Val | Phe 240 | Phe |
| Ser | Ile | Arg | Ala | Ile 245 | Ser | Ser | Ala | Gln | Gly 250 | Lys | Tyr | Lys | Ala | Phe 255 | Ser | Ser |

Thr Cys Ala Ser His Leu Ser Val Val Ser Leu Phe Tyr Gly Arg Ser
 260 265 270
 Leu Gly Val Tyr Phe Ser Ser Ala Pro Thr Gln Asn Ser His Ser Gly
 275 280 285
 Ala Ala Ala Ser Val Met Tyr Thr Val Val Thr Pro Met Leu Asn Pro
 290 295 300
 Phe Ile Cys Ser Leu Arg Asn Lys Asp Ile Lys Arg Ala Leu Asn Gln
 305 310 315 320
 Phe Ile Arg Val Val Pro Phe Phe Arg Lys
 325 330

<210> 1837

<211> 312

<212> PRT

<213> Unknown (H38g755 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(312)

<223> Xaa = Any Amino Acid

<400> 1837

Thr Thr Ser Ile Asp Asp Asn Thr Glu Val Asn Glu Phe Ile Xaa Leu
 1 5 10 15
 Gly Leu Thr Lys Ala Pro Glu Leu Gln Val His Leu Phe Val Leu Phe
 20 25 30
 Asn Phe Ile Tyr Leu Phe Thr Leu Ser Gly Asn Leu Gly Met Met Leu
 35 40 45
 Leu Ile Leu Leu Asp Ser Arg Leu His Thr Ser Met Tyr Phe Phe Leu
 50 55 60
 Ser Asn Leu Ser Leu Val Asp Phe Cys Tyr Ser Glu Thr Val Thr Pro
 65 70 75 80
 Lys Met Met Ala Gly Leu Leu Ile Ala His Lys Val Ile Ser Tyr Asn
 85 90 95
 Val Cys Ala Ala Gln Met Phe Phe Phe Ala Val Phe Ala Thr Val Glu
 100 105 110
 Ser Tyr Phe Leu Thr Ser Val Ala Tyr Asp Cys Tyr Arg Val Met Cys
 115 120 125
 Lys Pro Leu His Tyr Thr Thr Met Thr Thr Asn Val Cys Ala Ser
 130 135 140
 Leu Ala Ile Ala Cys Tyr Val Leu Gly Leu Leu Thr Ala Ala Val Asp
 145 150 155 160
 Ile Gly Asp Ile Cys Met Ser Asn Glu Ile His His Phe Phe Cys Asp
 165 170 175
 Ile Leu Ala Val Met Thr Leu Thr Cys Ser Asn Lys His Ile Asn Glu
 180 185 190
 Leu Ile Leu Val Leu Leu Gln Ala Ile Phe Phe Thr Leu Leu Val Ile
 195 200 205
 Leu Ile Ser Cys Leu Phe Val Phe Val Phe Val Thr Ile Leu Lys Met
 210 215 220
 His Leu Phe Lys Ser Tyr Lys Lys Val Leu Ser Thr Tyr Gly Ser His
 225 230 235 240
 Leu Thr Ala Val Pro Leu Phe Tyr Glu Thr Val Leu Ile Thr Tyr Val
 245 250 255
 Gln Pro Ser Ser Ser His Phe Met Asn Thr Glu Lys Ile Val Ser Val
 260 265 270
 Phe His Ile Met Val Ile Pro Met Leu Ile Pro Val Val Tyr Ser Leu
 275 280 285
 Arg Asn Asn Glu Val Lys Ser Ala Phe Lys Thr Val Val Glu Glu Thr

290 295 300
 Lys Tyr Phe Leu Gly Leu Val Phe
 305 310

<210> 1838
 <211> 315
 <212> PRT
 <213> Unknown (H38g756 protein)

<220>
 <223> Synthetic construct

<221> VARIANT
 <222> (1)...(315)
 <223> Xaa = Any Amino Acid

<400> 1838
 Met Gly Gly Phe Gly Thr Asn Ile Ser Ser Thr Thr Ser Phe Thr Leu
 1 5 10 15
 Thr Gly Phe Pro Glu Met Lys Gly Leu Glu His Trp Leu Ala Ala Leu
 20 25 30
 Leu Leu Leu Leu Cys Ala Ile Ser Phe Leu Gly Asn Ile Leu Ile Leu
 35 40 45
 Phe Ile Ile Lys Glu Glu Gln Ser Leu His Gln Pro Met Tyr Tyr Phe
 50 55 60
 Leu Ser Leu Phe Ser Val Asn Asp Leu Gly Val Ser Phe Ser Thr Leu
 65 70 75 80
 Pro Thr Val Leu Ala Val Cys Phe His Ala Pro Glu Thr Thr Phe
 85 90 95
 Asp Ala Cys Leu Ala Gln Thr Phe Phe Ile His Phe Ser Ser Trp Thr
 100 105 110
 Glu Phe Gly Ile Leu Leu Ala Met Ser Phe Asp His Tyr Val Ala Ile
 115 120 125
 Cys Asn Pro Leu Arg Tyr Ala Thr Val Leu Thr Asp Val Arg Val Ala
 130 135 140
 His Asn Gly Ile Ser Ile Val Ile Arg Ser Phe Cys Met Val Phe Pro
 145 150 155 160
 Leu Pro Phe Leu Leu Lys Arg Leu Pro Phe Cys Lys Ala Ser Val Val
 165 170 175
 Leu Ala His Ser Tyr Cys Leu His Ala Asp Leu Ile Arg Leu Pro Cys
 180 185 190
 Gly Asp Thr Thr Ile Asn Ser Met Tyr Gly Leu Phe Ile Val Ile Ser
 195 200 205
 Ala Phe Gly Val Asp Ser Leu Leu Ile Leu Leu Ser Tyr Val Leu Ile
 210 215 220
 Leu His Ser Val Leu Ala Ile Ala Ser Arg Gly Glu Arg Leu Lys Thr
 225 230 235 240
 Leu Asn Thr Cys Val Ser His Ile Tyr Ala Val Leu Ile Phe Tyr Val
 245 250 255
 Pro Met Val Ser Val Ser Met Val His Arg Phe Gly Arg His Ala Pro
 260 265 270
 Glu Tyr Val His Lys Phe Met Ser Ser Leu Tyr Leu Pro Met Leu Tyr
 275 280 285
 Pro Ile Ile Tyr Ser Ile Lys Thr Lys Glu Ile Arg Arg Arg Leu His
 290 295 300
 Lys Met Leu Leu Gly Ala Lys Phe Xaa Ser Lys
 305 310 315

<210> 1839
 <211> 329
 <212> PRT

<213> Unknown (H38g757 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(329)

<223> Xaa = Any Amino Acid

<400> 1839

```

Met Glu Pro Glu Asn Asp Thr Arg Ile Ser Glu Phe Arg Leu Leu Gly
 1           5           10           15
Phe Ser Glu Glu Pro Arg Leu Gln Arg Phe Arg Phe Leu Phe Gly Val
      20           25           30
Phe Leu Ser Met Tyr Leu Ile Ile Val Phe Gly Asn Leu Leu Ile Ile
      35           40           45
Leu Val Ile Ile Leu Cys Ser His Leu His Thr Ser Met Tyr Phe Phe
      50           55           60
Leu Ser Asn Leu Ser Phe Val Asp Ile Cys Phe Ala Ser Thr Arg Val
      65           70           75           80
Pro Lys Met Leu Val Asn Ile Gln Ala Gln Ser Lys Val Ile Thr Ser
      85           90           95
Ala Gly Cys Ile Thr Gln Met Tyr Phe Phe Ile His Phe Val Gly Leu
      100           105           110
Asp Ser Phe Leu Leu Thr Val Met Ala Tyr Asp Arg Phe Val Ala Ile
      115           120           125
Cys His Pro Leu Tyr Tyr Thr Val Ile Met Asn Pro Gln Leu Cys Gly
      130           135           140
Leu Leu Val Leu Val Ser Trp Ile Thr Ser Val Leu His Ser Leu Leu
      145           150           155           160
His Ser Leu Met Val Leu Gln Leu Ser Leu Cys Arg Glu Leu Glu Ile
      165           170           175
Pro His Phe Phe Cys Glu Leu Asn Gln Val Ile His Leu Ala Cys Ser
      180           185           190
Asp Thr Phe Leu Asn Asp Met Val Met Tyr Leu Ala Ala Val Leu Leu
      195           200           205
Gly Gly Gly Ser Leu Ala Gly Ile Leu Tyr Ser Tyr Ser Lys Thr Val
      210           215           220
Ser Ser Ile Cys Ala Ile Ser Ser Ala Gln Gly Lys Tyr Lys Ala Phe
      225           230           235           240
Ser Thr Cys Pro Ser His Leu Ser Val Val Ser Leu Phe Tyr Cys Thr
      245           250           255
Ser Leu Gly Val Tyr Leu Ser Ser Ala Ala Ser His Asn Ser His Ser
      260           265           270
Gly Ala Ile Ala Ser Val Met Tyr Thr Val Val Thr Pro Met Leu Asn
      275           280           285
Pro Phe Ile Tyr Ser Leu Arg Asn Lys Asp Ile Lys Arg Ala Leu Lys
      290           295           300
Asn Ser Leu Gly Gly Lys Leu Glu Lys Gly Gln Leu Ser Leu Gly Leu
      305           310           315           320
Lys Leu Tyr Pro Xaa Leu Gln Gly Ser
      325

```

<210> 1840

<211> 320

<212> PRT

<213> Unknown (H38g758 protein)

<220>

<223> Synthetic construct

<400> 1840

```

Met Glu Arg Gly Asn Gln Thr Glu Val Gly Asn Phe Leu Leu Leu Gly
 1          5          10          15
Phe Ala Glu Asp Ser Asp Met Gln Leu Leu Leu His Gly Leu Phe Leu
          20          25          30
Ser Met Tyr Leu Val Thr Ile Ile Gly Asn Leu Leu Ile Ile Leu Thr
          35          40          45
Ile Ser Ser Asp Ser His Leu His Thr Pro Met Tyr Phe Phe Leu Ser
          50          55          60
Asn Leu Ser Phe Ala Asp Ile Cys Phe Thr Ser Thr Thr Val Pro Lys
65          70          75          80
Met Leu Val Asn Ile Gln Thr Gln Ser Lys Met Ile Thr Phe Ala Gly
          85          90          95
Cys Leu Thr Gln Ile Phe Phe Phe Ile Ala Phe Gly Cys Leu Asp Asn
          100          105          110
Leu Leu Leu Thr Met Thr Ala Tyr Asp Arg Phe Val Ala Ile Cys Tyr
          115          120          125
Pro Leu His Tyr Thr Val Ile Met Asn Pro Arg Leu Cys Gly Leu Leu
          130          135          140
Val Leu Gly Ser Trp Cys Ile Ser Val Met Gly Ser Leu Leu Glu Thr
145          150          155          160
Leu Thr Ile Leu Arg Leu Ser Ser Cys Thr Asn Met Glu Ile Pro His
          165          170          175
Phe Phe Cys Asp Pro Ser Glu Val Leu Lys Leu Ala Cys Ser Asp Thr
          180          185          190
Phe Ile Asn Asn Ile Val Met Cys Phe Val Thr Ile Val Leu Gly Val
          195          200          205
Phe Pro Leu Cys Gly Ile Leu Phe Ser Tyr Ser Gln Ile Phe Ser Ser
          210          215          220
Val Leu Arg Val Ser Ser Ala Arg Gly Gln His Lys Ala Phe Thr Thr
225          230          235          240
Cys Gly Ser His Leu Ser Val Val Ser Leu Phe Tyr Gly Thr Gly Leu
          245          250          255
Gly Val Tyr Leu Ser Ser Ala Val Thr Pro Pro Ser Arg Thr Ser Leu
          260          265          270
Ala Ala Ser Val Met His Thr Met Val Thr Pro Met Leu Asn Pro Phe
          275          280          285
Ile Tyr Ser Leu Arg Asn Lys Asp Met Lys Gly Ser Leu Gly Arg Leu
          290          295          300
Leu Leu Arg Ala Thr Ser Leu Lys Glu Gly Thr Ile Ala Lys Leu Ser
305          310          315          320

```

<210> 1841

<211> 328

<212> PRT

<213> Unknown (H38g759 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(328)

<223> Xaa = Any Amino Acid

<400> 1841

```

Tyr Thr Asp Pro Gln Asn Leu Thr Asp Val Phe Ile Phe Leu Leu Leu
 1          5          10          15
Glu Leu Ser Glu Asp Pro Ala Leu Gln Leu Val Val Thr Gly Leu Cys
          20          25          30
Leu Met Cys Leu Val Thr Val Leu Trp Asn Leu Leu Ser Ile Leu Ala
          35          40          45

```

Val Ser Pro Asp Ser His Leu His Thr Pro Met His Phe Phe Leu Cys
 50 55 60
 Asn Leu Ser Leu Pro Asp Ile Gly Phe Thr Ser Thr Thr Val Pro Lys
 65 70 75 80
 Met Ile Val Asp Ile Gln Ser His Ser Arg Val Ile Ser Tyr Ala Gly
 85 90 95
 Cys Leu Thr Gln Met Ser Leu Ser Ala Ile Phe Gly Gly Met Glu Glu
 100 105 110
 Asn Met Leu Leu Ser Val Met Ala Tyr Asp Gln Phe Val Ala Ile Cys
 115 120 125
 His Pro Leu Tyr His Ser Ala Ile Met Asn Pro Cys Phe Cys Gly Phe
 130 135 140
 Leu Val Leu Leu Ser Phe Phe Phe Ser Val Phe Xaa His Ser Gln Leu
 145 150 155 160
 Gln Asn Leu Ile Ala Leu Gln Ile Thr Cys Phe Lys Asp Val Glu Ile
 165 170 175
 Pro Asn Phe Phe Cys Asp Pro Ser Gln Leu Pro His Leu Ala Cys Cys
 180 185 190
 Asp Thr Phe Thr Asn Asn Ile Ile Met Tyr Phe Pro Ala Ala Ile Phe
 195 200 205
 Gly Phe Leu Pro Ile Ser Gly Thr Leu Phe Ser Tyr Tyr Lys Ile Val
 210 215 220
 Ser Ser Ile Leu Arg Val Ser Ser Ser Gly Gly Ser Tyr Lys Ala Phe
 225 230 235 240
 Ala Thr Cys Gly Ser His Leu Ser Val Val Cys Xaa Phe Tyr Gly Thr
 245 250 255
 Gly Val Gly Gly Tyr Leu Ser Ser Asp Val Ser Ser Ser Leu Arg Lys
 260 265 270
 Arg Ala Val Ala Ser Val Met Tyr Thr Val Val Thr Pro Met Leu Asn
 275 280 285
 Pro Leu Ile Tyr Ser Leu Arg Asn Arg Asp Ile Lys Gly Val Leu Trp
 290 295 300
 Gln Pro Cys Ser Arg Thr Ala Ala Gln Ser Pro Ser Gln Tyr Leu His
 305 310 315 320
 Leu Phe His Ser Phe Cys Arg Met
 325

<210> 1842

<211> 210

<212> PRT

<213> Unknown (H38g760 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(210)

<223> Xaa = Any Amino Acid

<400> 1842

Ser Val Lys Tyr Leu Asn Glu Ser Phe Pro Glu Asp Phe Ile Leu Met
 1 5 10 15
 Gly Phe Val Lys Tyr Pro Trp Leu Asp Phe Leu Leu Phe Cys Val Leu
 20 25 30
 Leu Thr Phe Tyr Met Phe Thr Leu Gly Asn Ser Ala Ile Ile Leu
 35 40 45
 Val Ser Gln Leu Asp Ser Gln Leu His Ser Pro Met Tyr Phe Leu Leu
 50 55 60
 Thr Ser Leu Ser Val Leu Tyr Leu Cys Phe Thr Thr Thr Thr Val Pro
 65 70 75 80
 Gln Met Leu Phe Asn Leu Gly Gly Thr Asn Lys Asn Ile Thr Xaa Ile

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | | | | 85 | | | | | 90 | | | | | 95 | |
| Gly | Cys | Met | Ala | Gln | Ala | Tyr | Val | Phe | His | Trp | Leu | Ala | Cys | Ile | Glu |
| | | | 100 | | | | | 105 | | | | | 110 | | |
| Cys | Val | Leu | Leu | Gly | Ile | Val | Ala | Leu | Asp | Cys | Tyr | Val | Ala | Val | Cys |
| | | 115 | | | | | 120 | | | | | 125 | | | |
| Lys | Pro | Pro | Arg | Tyr | Thr | Ile | Ile | Ile | Asp | His | Lys | Val | Cys | Leu | His |
| | 130 | | | | | 135 | | | | | 140 | | | | |
| Leu | Ser | Ser | Thr | Ala | Trp | Leu | Ile | Gly | Leu | Ala | Asn | Ser | Leu | Leu | Gln |
| 145 | | | | 150 | | | | | 155 | | | | | | 160 |
| Ser | Thr | Ile | Thr | Ile | Gln | Leu | Pro | Leu | Xaa | Arg | Cys | Ile | Ala | Gln | Ile |
| | | | 165 | | | | | 170 | | | | | | 175 | |
| Phe | Leu | Xaa | Leu | Glu | Ser | Val | Thr | Xaa | Gln | Ser | Leu | Thr | Val | Thr | Tyr |
| | | 180 | | | | | 185 | | | | | 190 | | | |
| Leu | Xaa | Asp | Leu | Leu | Gln | His | Ser | Ile | Xaa | Gly | Gln | Leu | His | Ala | Gly |
| | | 195 | | | | | 200 | | | | | 205 | | | |
| Glu | Leu | | | | | | | | | | | | | | |
| | 210 | | | | | | | | | | | | | | |

<210> 1843

<211> 315

<212> PRT

<213> Unknown (H38g761 protein)

<220>

<223> Synthetic construct

<400> 1843

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Glu | Pro | Glu | Lys | Gln | Thr | Glu | Ile | Ser | Glu | Phe | Phe | Leu | Gln | Gly |
| 1 | | | | 5 | | | | 10 | | | | | | 15 | |
| Leu | Ser | Glu | Lys | Pro | Glu | His | Gln | Thr | Leu | Leu | Phe | Thr | Met | Phe | Leu |
| | | 20 | | | | | 25 | | | | | 30 | | | |
| Ser | Thr | Tyr | Leu | Val | Thr | Ile | Ile | Gly | Asn | Ala | Leu | Ile | Ile | Leu | Ala |
| | 35 | | | | | 40 | | | | | 45 | | | | |
| Ile | Ile | Thr | Asp | Ser | His | Leu | His | Thr | Pro | Met | Tyr | Phe | Phe | Leu | Phe |
| 50 | | | | 55 | | | | | 60 | | | | | | |
| Asn | Leu | Ser | Leu | Val | Asp | Thr | Leu | Leu | Ser | Ser | Thr | Thr | Val | Pro | Lys |
| 65 | | | 70 | | | | | 75 | | | | | | 80 | |
| Met | Leu | Ala | Asn | Ile | Gln | Ala | Gln | Ser | Arg | Ala | Ile | Pro | Phe | Val | Gly |
| | | | 85 | | | | | 90 | | | | | 95 | | |
| Cys | Leu | Thr | Gln | Met | Tyr | Ala | Phe | His | Leu | Phe | Gly | Thr | Met | Asp | Ser |
| | | 100 | | | | | 105 | | | | | 110 | | | |
| Phe | Leu | Leu | Ala | Val | Met | Ala | Ile | Asp | Arg | Phe | Val | Ala | Ile | Val | His |
| | 115 | | | | | 120 | | | | | 125 | | | | |
| Pro | Gln | Arg | Tyr | Leu | Val | Leu | Met | Cys | Ser | Pro | Val | Cys | Gly | Leu | Leu |
| | 130 | | | | 135 | | | | | 140 | | | | | |
| Leu | Gly | Ala | Ser | Trp | Met | Ile | Thr | Asn | Leu | Gln | Ser | Leu | Ile | His | Thr |
| 145 | | | 150 | | | | | 155 | | | | | | 160 | |
| Cys | Leu | Met | Ala | Gln | Leu | Thr | Phe | Cys | Ala | Gly | Ser | Glu | Ile | Ser | His |
| | | | 165 | | | | | 170 | | | | | 175 | | |
| Phe | Phe | Cys | Asp | Leu | Met | Pro | Leu | Leu | Lys | Leu | Ser | Gly | Ser | Asp | Thr |
| | | 180 | | | | | 185 | | | | | 190 | | | |
| His | Thr | Asn | Glu | Leu | Val | Ile | Phe | Ala | Phe | Gly | Ile | Val | Val | Gly | Thr |
| | 195 | | | | | 200 | | | | | 205 | | | | |
| Ser | Pro | Phe | Ser | Cys | Ile | Leu | Leu | Ser | Tyr | Ile | Arg | Ile | Phe | Trp | Thr |
| | 210 | | | | 215 | | | | 220 | | | | | | |
| Val | Phe | Lys | Ile | Pro | Ser | Thr | Arg | Gly | Lys | Trp | Lys | Ala | Phe | Ser | Thr |
| 225 | | | | 230 | | | | | 235 | | | | | 240 | |
| Cys | Gly | Leu | His | Leu | Thr | Val | Val | Ser | Leu | Ser | Tyr | Gly | Thr | Ile | Phe |
| | | | 245 | | | | | 250 | | | | | | 255 | |
| Ala | Val | Tyr | Leu | Gln | Pro | Thr | Ser | Pro | Ser | Ser | Ser | Gln | Lys | Asp | Lys |
| | | 260 | | | | | 265 | | | | | | 270 | | |

Ala Ala Ala Leu Met Cys Gly Val Phe Ile Pro Met Leu Asn Pro Phe
 275 280 285
 Ile Tyr Ser Ile Arg Asn Lys Asp Met Lys Ala Ala Leu Gly Lys Leu
 290 295 300
 Ile Gly Lys Val Ala Val Pro Cys Pro Arg Pro
 305 310 315

<210> 1844

<211> 316

<212> PRT

<213> Unknown (H38g762 protein)

<220>

<223> Synthetic construct

<400> 1844

Met Ala Pro Thr Asn Leu Thr Ser Ala Pro Val Phe Leu Leu Leu Gly
 1 5 10 15
 Leu Val Asp Gly Thr Asp Ala His Pro Leu Leu Phe Leu Leu Cys Leu
 20 25 30
 Gly Ile Tyr Leu Leu Asn Ala Leu Ser Asn Leu Ser Met Val Ala Leu
 35 40 45
 Val Arg Ser Asp Gly Ala Leu Arg Ser Pro Met Tyr Tyr Phe Leu Gly
 50 55 60
 His Leu Ser Leu Val Asp Val Cys Phe Thr Thr Val Thr Val Pro Arg
 65 70 75 80
 Leu Leu Ala Gly Leu Leu His Pro Gly Gln Ala Ile Ser Phe Gln Ala
 85 90 95
 Cys Phe Ala Glu Met Tyr Phe Phe Val Ala Leu Gly Ile Thr Glu Ser
 100 105 110
 Tyr Leu Leu Ala Ala Met Ser Tyr Asp Arg Ala Thr Ala Ala Cys Arg
 115 120 125
 Pro Leu Arg Tyr Gly Ala Leu Val Thr Pro Trp Ala Cys Ala Ser Leu
 130 135 140
 Val Arg Ala Ser Trp Ala Val Thr His Leu His Ser Leu Leu His Thr
 145 150 155 160
 Leu Leu Leu Ser Ala Leu Ser Tyr Pro Tyr Pro Thr Pro Val Arg Pro
 165 170 175
 Phe Phe Cys Asp Met Thr Val Met Leu Ser Leu Ala Thr Ser Asp Thr
 180 185 190
 Ser Ala Ala Glu Thr Ala Ile Phe Ser Glu Gly Leu Ala Val Val Leu
 195 200 205
 Ala Pro Leu Leu Leu Val Phe Leu Ser Tyr Ala Arg Ile Leu Val Ala
 210 215 220
 Val Leu Gly Leu Pro Arg Pro Arg Arg Ala Phe Ser Tyr Cys Gly Ala
 225 230 235 240
 His Leu Val Ala Val Ala Val Ala Leu Phe Phe Gly Ser Val Leu Ser
 245 250 255
 Val Tyr Phe Pro Pro Ser Ser Ala Tyr Ser Ala Arg Tyr Asp Arg Leu
 260 265 270
 Ala Ser Val Val Tyr Ala Val Ile Thr Pro Thr Leu Asn Pro Phe Ile
 275 280 285
 Asn Ser Leu Arg Asn Lys Glu Val Lys Gly Ala Leu Lys Arg Gly Leu
 290 295 300
 Arg Trp Arg Ala Ala Pro Gln Glu Ala Trp Arg Ala
 305 310 315

<210> 1845

<211> 312

<212> PRT

<213> Unknown (H38g763 protein)

<220>

<223> Synthetic construct

<400> 1845

```

Met Asp Gly Glu Asn His Ser Val Val Ser Glu Phe Leu Phe Leu Gly
 1          5          10          15
Leu Thr His Ser Trp Glu Ile Gln Leu Leu Leu Val Phe Ser Ser
          20          25          30
Val Leu Tyr Val Ala Ser Ile Thr Gly Asn Ile Leu Ile Val Phe Ser
          35          40          45
Val Thr Thr Asp Pro His Leu His Ser Pro Met Tyr Phe Leu Leu Ala
          50          55          60
Ser Leu Ser Phe Ile Asp Leu Gly Ala Cys Ser Val Thr Ser Pro Lys
65          70          75          80
Met Ile Tyr Asp Leu Phe Arg Lys Arg Lys Val Ile Ser Phe Gly Gly
          85          90          95
Cys Ile Ala Gln Ile Phe Phe Ile His Val Ile Gly Gly Val Glu Met
          100          105          110
Val Leu Leu Ile Ala Met Ala Phe Asp Arg Tyr Val Ala Leu Cys Lys
          115          120          125
Pro Leu His Tyr Leu Thr Ile Met Ser Pro Arg Met Cys Leu Ser Phe
130          135          140
Leu Ala Val Ala Trp Thr Leu Gly Val Ser His Ser Leu Phe Gln Leu
145          150          155          160
Ala Phe Leu Val Asn Leu Ala Phe Cys Gly Pro Asn Val Leu Asp Ser
          165          170          175
Phe Tyr Cys Asp Leu Pro Arg Leu Leu Arg Leu Ala Cys Thr Asp Thr
          180          185          190
Tyr Arg Leu Gln Phe Met Val Thr Val Asn Ser Gly Phe Ile Cys Val
          195          200          205
Gly Thr Phe Phe Ile Leu Leu Ile Ser Tyr Val Phe Ile Leu Phe Thr
          210          215          220
Val Trp Lys His Ser Ser Gly Gly Ser Ser Lys Ala Leu Ser Thr Leu
225          230          235          240
Ser Ala His Ser Thr Val Val Leu Leu Phe Phe Gly Pro Pro Met Phe
          245          250          255
Val Tyr Thr Arg Pro His Pro Asn Ser Gln Met Asp Lys Phe Leu Ala
          260          265          270
Ile Phe Asp Ala Val Leu Thr Pro Phe Leu Asn Pro Val Val Tyr Thr
          275          280          285
Phe Arg Asn Lys Glu Met Lys Ala Ala Ile Lys Arg Val Cys Lys Gln
          290          295          300
Leu Val Ile Tyr Lys Arg Ile Ser
305          310

```

<210> 1846

<211> 318

<212> PRT

<213> Unknown (H38g764 protein)

<220>

<223> Synthetic construct

<400> 1846

```

Met Trp Gln Lys Asn Gln Thr Ser Leu Ala Asp Phe Ile Leu Glu Gly
 1          5          10          15
Leu Phe Asp Asp Ser Leu Thr His Leu Phe Leu Phe Ser Leu Thr Met
          20          25          30
Val Val Phe Leu Ile Ala Val Ser Gly Asn Thr Leu Thr Ile Leu Leu
          35          40          45

```



```

Ile Cys Ile Asp Pro Gln Leu His Thr Pro Met Tyr Phe Leu Leu Ser
 50      55      60
Gln Leu Ser Leu Met Asp Leu Met His Val Ser Thr Thr Ile Leu Lys
 65      70      75      80
Met Ala Thr Asn Tyr Leu Ser Gly Lys Lys Ser Ile Ser Phe Val Gly
      85      90      95
Cys Ala Thr Gln His Phe Leu Tyr Leu Cys Leu Gly Gly Ala Glu Cys
 100      105      110
Phe Leu Leu Ala Val Met Ser Tyr Asp Arg Tyr Val Ala Ile Cys His
 115      120      125
Pro Leu Arg Tyr Ala Val Leu Met Asn Lys Lys Val Gly Leu Met Met
 130      135      140
Ala Val Met Ser Trp Leu Gly Ala Ser Val Asn Ser Leu Ile His Met
 145      150      155      160
Ala Ile Leu Met His Phe Pro Phe Cys Gly Pro Arg Lys Val Tyr His
      165      170      175
Phe Tyr Cys Glu Phe Pro Ala Val Val Lys Leu Val Cys Gly Asp Ile
 180      185      190
Thr Val Tyr Glu Thr Thr Val Tyr Ile Ser Ser Ile Leu Leu Leu Leu
 195      200      205
Pro Ile Phe Leu Ile Ser Thr Ser Tyr Val Phe Ile Leu Gln Ser Val
 210      215      220
Ile Gln Met Arg Ser Ser Gly Ser Lys Arg Asn Ala Phe Ala Thr Cys
 225      230      235      240
Gly Ser His Leu Thr Val Val Ser Leu Trp Phe Gly Ala Cys Ile Phe
      245      250      255
Ser Tyr Met Arg Pro Arg Ser Gln Cys Thr Leu Leu Gln Asn Lys Val
 260      265      270
Gly Ser Val Phe Tyr Ser Ile Ile Thr Pro Thr Leu Asn Ser Leu Ile
 275      280      285
Tyr Thr Leu Arg Asn Lys Asp Val Ala Lys Ala Leu Arg Arg Val Leu
 290      295      300
Arg Arg Asp Val Ile Thr Gln Cys Ile Gln Arg Leu Gln Leu
 305      310      315

```

<210> 1847

<211> 105

<212> PRT

<213> Unknown (H38g765 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(105)

<223> Xaa = Any Amino Acid

<400> 1847

```

Thr Leu Cys Ala Thr Ala Xaa Leu Asp His Phe Ile Cys Glu Leu Pro
 1      5      10      15
Ala Leu Leu Lys Leu Ala Arg Gly Gly Ile Gly Asp Thr Thr Glu Asn
 20      25      30
Gln Met Phe Ala Ala Arg Val Val Ile Leu Leu Leu Pro Phe Ala Val
 35      40      45
Ile Leu Ala Ser Tyr Gly Ala Val Ala Arg Ala Val Cys Cys Met Arg
 50      55      60
Phe Ser Gly Gly Arg Arg Ala Val Gly Thr Cys Gly Ser His Leu
 65      70      75      80
Thr Ala Val Cys Leu Phe Tyr Gly Ser Ala Ile Tyr Thr Tyr Leu Gln
 85      90      95
Pro Ala Gln Arg Asn Asn Gln Ala Arg

```

100

105

<210> 1848
 <211> 104
 <212> PRT
 <213> Unknown (H38g766 protein)

<220>
 <223> Synthetic construct

<221> VARIANT
 <222> (1)...(104)
 <223> Xaa = Any Amino Acid

<400> 1848
 Ile His Ala Leu Ser Ala Ile Glu Ser Thr Ile Leu Leu Ala Met Ala
 1 5 10 15
 Phe Asn Arg Tyr Val Ala Ile Cys His Pro Leu Arg His Ala Ala Val
 20 25 30
 Leu Asn Asn Thr Val Thr Ala Gln Ile Gly Ile Val Ala Val Val Arg
 35 40 45
 Gly Ser Leu Phe Phe Phe Pro Leu Leu Ile Lys Arg Leu Ala
 50 55 60
 Phe Cys His Ser Asn Val Leu Ser His Ser Tyr Cys Val His Gln Asp
 65 70 75 80
 Val Met Lys Leu Ala Tyr Ala Asp Asn Leu Pro Asn Val Val Tyr Gly
 85 90 95
 Leu Asn Xaa Pro Phe Trp Leu Val
 100

<210> 1849
 <211> 320
 <212> PRT
 <213> Unknown (H38g767 protein)

<220>
 <223> Synthetic construct

<400> 1849
 Met Glu Thr Gly Asn Gln Thr His Ala Gln Glu Phe Leu Leu Leu Gly
 1 5 10 15
 Phe Ser Ala Thr Ser Glu Ile Gln Phe Ile Leu Phe Gly Leu Phe Leu
 20 25 30
 Ser Met Tyr Leu Val Thr Phe Thr Gly Asn Leu Leu Ile Ile Leu Ala
 35 40 45
 Ile Cys Ser Asp Ser His Leu His Thr Pro Met Tyr Phe Phe Leu Ser
 50 55 60
 Asn Leu Ser Phe Ala Asp Leu Cys Phe Thr Ser Thr Thr Val Pro Lys
 65 70 75 80
 Met Leu Leu Asn Ile Leu Thr Gln Asn Lys Phe Ile Thr Tyr Ala Gly
 85 90 95
 Cys Leu Ser Gln Ile Phe Phe Phe Thr Ser Phe Gly Cys Leu Asp Asn
 100 105 110
 Leu Leu Leu Thr Val Met Ala Tyr Asp Arg Phe Val Ala Val Cys His
 115 120 125
 Pro Leu His Tyr Thr Val Ile Met Asn Pro Gln Leu Cys Gly Leu Leu
 130 135 140
 Val Leu Gly Ser Trp Cys Ile Ser Val Met Gly Ser Leu Leu Glu Thr
 145 150 155 160
 Leu Thr Val Leu Arg Leu Ser Phe Cys Thr Lys Met Glu Ile Pro His
 165 170 175

```

Phe Phe Cys Asp Leu Leu Glu Val Leu Lys Leu Ala Cys Ser Asp Thr
    180                      185                      190
Phe Ile Asn Asn Val Val Ile Tyr Phe Ala Thr Gly Val Leu Gly Val
    195                      200                      205
Ile Ser Phe Thr Gly Ile Phe Phe Ser Tyr Tyr Lys Ile Val Phe Ser
    210                      215                      220
Ile Leu Arg Ile Ser Ser Ala Gly Arg Lys His Lys Ala Phe Ser Thr
    225                      230                      235                      240
Cys Gly Ser His Leu Ser Val Val Thr Leu Phe Tyr Gly Thr Gly Phe
    245                      250                      255
Gly Val Tyr Leu Ser Ser Ala Ala Thr Pro Ser Ser Arg Thr Ser Leu
    260                      265                      270
Val Ala Ser Val Met Tyr Thr Met Val Thr Pro Met Leu Asn Pro Phe
    275                      280                      285
Ile Tyr Ser Leu Arg Asn Thr Asp Met Lys Arg Ala Leu Gly Arg Leu
    290                      295                      300
Leu Ser Arg Ala Thr Phe Phe Asn Gly Asp Ile Thr Ala Gly Leu Ser
    305                      310                      315                      320

```

<210> 1850

<211> 312

<212> PRT

<213> Unknown (H38g768 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(312)

<223> Xaa = Any Amino Acid

<400> 1850

```

Met Gly Asp Asn Gln Ser Arg Val Thr Glu Phe Ile Leu Val Gly Phe
  1          5          10          15
Gln Leu Ser Val Glu Met Glu Val Leu Leu Phe Trp Ile Phe Ser Leu
  20          25          30
Leu Tyr Leu Phe Ser Leu Leu Ala Asn Gly Met Ile Leu Gly Leu Ile
  35          40          45
Cys Leu Asp Pro Arg Leu Arg Thr Pro Met Tyr Phe Phe Leu Ser His
  50          55          60
Leu Ala Val Ile Asp Ile Tyr Tyr Ala Ser Ser Asn Leu Leu Asn Met
  65          70          75          80
Leu Glu Asn Leu Val Lys His Lys Lys Asn Tyr Pro Phe Ile Ser Cys
  85          90          95
Ile Met Gln Met Ala Leu Tyr Leu Thr Phe Ala Ala Ala Val Cys Met
  100         105         110
Ile Leu Val Val Met Ser Tyr Asp Arg Phe Val Ala Ile Cys His Pro
  115         120         125
Leu His Tyr Thr Val Ile Met Asn Trp Arg Val Cys Thr Val Leu Ala
  130         135         140
Ile Thr Ser Trp Ala Cys Gly Phe Ser Leu Ala Leu Ile Asn Leu Ile
  145         150         155         160
Leu Leu Leu Arg Leu Pro Phe Cys Gly Pro Gln Glu Val Asn His Phe
  165         170         175
Phe Gly Glu Ile Leu Ser Val Leu Lys Leu Ala Cys Ala Asp Thr Trp
  180         185         190
Ile Asn Glu Ile Phe Val Phe Ala Gly Gly Val Phe Val Leu Val Gly
  195         200         205
Pro Leu Ser Leu Met Leu Ile Ser Tyr Met Arg Ile Leu Leu Ala Ile
  210         215         220
Leu Lys Ile Gln Ser Lys Glu Gly Arg Lys Lys Ala Phe Ser Thr Cys

```

| | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 225 | | | | 230 | | | | | 235 | | | | 240 |
| Ser | Ser | His | Leu | Cys | Val | Val | Gly | Leu | Tyr | Phe | Gly | Met | Ala |
| | | | | 245 | | | | | 250 | | | | 255 |
| Val | Tyr | Leu | Val | Pro | Asp | Asn | Ser | Gln | Arg | Gln | Lys | Gln | Gln |
| | | | 260 | | | | | 265 | | | | 270 | |
| Leu | Thr | Leu | Phe | Tyr | Ser | Leu | Phe | Asn | Pro | Leu | Leu | Asn | Pro |
| | | 275 | | | | | 280 | | | | 285 | | |
| Tyr | Ser | Leu | Arg | Asn | Ala | Gln | Val | Lys | Gly | Ala | Leu | Tyr | Arg |
| | 290 | | | | | 295 | | | | | 300 | | |
| Gln | Lys | Lys | Arg | Thr | Met | Xaa | Met | | | | | | |
| 305 | | | | | 310 | | | | | | | | |

<210> 1851

<211> 319

<212> PRT

<213> Unknown (H38g769 protein)

<220>

<223> Synthetic construct

<400> 1851

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Glu | Pro | Gly | Asn | Asp | Thr | Gln | Ile | Ser | Glu | Phe | Leu | Leu | Leu | Gly |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |
| Phe | Ser | Gln | Glu | Pro | Gly | Leu | Gln | Pro | Phe | Leu | Phe | Gly | Leu | Phe | Leu |
| | | 20 | | | | | | 25 | | | | | 30 | | |
| Ser | Met | Tyr | Leu | Val | Thr | Val | Leu | Gly | Asn | Leu | Leu | Ile | Ile | Leu | Ala |
| | | 35 | | | | | 40 | | | | | 45 | | | |
| Thr | Ile | Ser | Asp | Ser | His | Leu | His | Thr | Pro | Met | Tyr | Phe | Phe | Leu | Ser |
| | 50 | | | | | 55 | | | | 60 | | | | | |
| Asn | Leu | Ser | Phe | Ala | Asp | Ile | Cys | Val | Thr | Ser | Thr | Thr | Ile | Pro | Lys |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |
| Met | Leu | Met | Asn | Ile | Gln | Thr | Gln | Asn | Lys | Val | Ile | Thr | Tyr | Ile | Ala |
| | | | 85 | | | | | 90 | | | | | | 95 | |
| Cys | Leu | Met | Gln | Met | Tyr | Phe | Phe | Ile | Leu | Phe | Ala | Gly | Phe | Glu | Asn |
| | | | 100 | | | | | 105 | | | | | 110 | | |
| Phe | Leu | Leu | Ser | Val | Met | Ala | Tyr | Asp | Arg | Phe | Val | Ala | Ile | Cys | His |
| | | 115 | | | | | 120 | | | | | 125 | | | |
| Pro | Leu | His | Tyr | Met | Val | Ile | Met | Asn | Pro | His | Leu | Cys | Gly | Leu | Leu |
| | 130 | | | | | 135 | | | | | 140 | | | | |
| Val | Leu | Ala | Ser | Trp | Thr | Met | Ser | Ala | Leu | Tyr | Ser | Leu | Leu | Gln | Ile |
| 145 | | | | | 150 | | | | | 155 | | | | | 160 |
| Leu | Met | Val | Val | Arg | Leu | Ser | Phe | Cys | Thr | Ala | Leu | Glu | Ile | Pro | His |
| | | | 165 | | | | | | 170 | | | | | 175 | |
| Phe | Phe | Cys | Glu | Leu | Asn | Gln | Val | Ile | Gln | Leu | Ala | Cys | Ser | Asp | Ser |
| | | 180 | | | | | | 185 | | | | | 190 | | |
| Phe | Leu | Asn | His | Met | Val | Ile | Tyr | Phe | Thr | Val | Ala | Leu | Leu | Gly | Gly |
| | 195 | | | | | 200 | | | | | 205 | | | | |
| Gly | Pro | Leu | Thr | Gly | Ile | Leu | Tyr | Ser | Tyr | Ser | Lys | Ile | Ile | Ser | Ser |
| | 210 | | | | | 215 | | | | | 220 | | | | |
| Ile | His | Ala | Ile | Ser | Ser | Ala | Gln | Gly | Lys | Tyr | Lys | Ala | Phe | Ser | Thr |
| 225 | | | | | 230 | | | | | 235 | | | | | 240 |
| Cys | Ala | Ser | His | Leu | Ser | Val | Val | Ser | Leu | Phe | Tyr | Gly | Ala | Ile | Leu |
| | | | 245 | | | | | | 250 | | | | | 255 | |
| Gly | Val | Tyr | Leu | Ser | Ser | Ala | Ala | Thr | Arg | Asn | Ser | His | Ser | Ser | Ala |
| | | 260 | | | | | | 265 | | | | | 270 | | |
| Thr | Ala | Ser | Val | Met | Tyr | Thr | Val | Val | Thr | Pro | Met | Leu | Asn | Pro | Phe |
| | 275 | | | | | | 280 | | | | | 285 | | | |
| Ile | Tyr | Ser | Leu | Arg | Asn | Lys | Asp | Ile | Lys | Arg | Ala | Leu | Gly | Ile | His |
| | 290 | | | | | 295 | | | | | 300 | | | | |
| Leu | Leu | Trp | Gly | Thr | Met | Lys | Gly | Gln | Phe | Phe | Lys | Lys | Cys | Pro | |
| 305 | | | | | 310 | | | | | 315 | | | | | |

<210> 1852
 <211> 74
 <212> PRT
 <213> Unknown (H38g770 protein)

<220>
 <223> Synthetic construct

<221> VARIANT
 <222> (1)...(74)
 <223> Xaa = Any Amino Acid

<400> 1852
 Gly Asp Thr Thr Glu Asn Gln Met Phe Ala Ala Arg Val Val Ile Leu
 1 5 10 15
 Leu Leu Pro Tyr Asp Val Ile Leu Ala Ser Xaa Gly Ala Val Ala Arg
 20 25 30
 Ala Val Cys Cys Met Arg Phe Ser Gly Gly Pro Arg Arg Ala Leu Gly
 35 40 45
 Thr Cys Gly Ser His Pro Thr Ala Val Trp Leu Phe Xaa Gly Ser Gly
 50 55 60
 Lys Xaa Thr Tyr Leu Gln Ala Ala Gln Leu
 65 70

<210> 1853
 <211> 309
 <212> PRT
 <213> Unknown (H38g771 protein)

<220>
 <223> Synthetic construct

<400> 1853
 Met Lys Ser Trp Asn Asn Thr Ile Ile Leu Glu Phe Leu Leu Leu Gly
 1 5 10 15
 Ile Ser Glu Glu Pro Glu Leu Gln Ala Phe Leu Phe Gly Leu Phe Leu
 20 25 30
 Ser Met Tyr Leu Val Thr Val Leu Gly Asn Leu Leu Ile Ile Leu Ala
 35 40 45
 Thr Ile Ser Asp Ser His Leu His Thr Pro Met Tyr Phe Phe Leu Ser
 50 55 60
 Asn Leu Ser Phe Val Gly Ile Cys Phe Val Ser Thr Thr Val Pro Lys
 65 70 75 80
 Met Leu Val Asn Ile Gln Thr His Asn Lys Val Ile Thr Tyr Ala Gly
 85 90 95
 Cys Ile Thr Gln Met Cys Phe Phe Leu Leu Phe Val Gly Leu Asp Asn
 100 105 110
 Phe Leu Leu Thr Val Met Ala Tyr Asp Arg Phe Val Ala Ile Cys His
 115 120 125
 Pro Leu His Tyr Met Val Ile Met Asn Pro Gln Leu Cys Gly Leu Leu
 130 135 140
 Val Leu Ala Ser Trp Ile Met Ser Val Leu Asn Ser Met Leu Gln Ser
 145 150 155 160
 Leu Met Val Leu Pro Leu Pro Phe Cys Thr His Met Glu Ile Pro His
 165 170 175
 Phe Phe Cys Glu Ile Asn Gln Val Val His Leu Ala Cys Ser Asp Thr
 180 185 190
 Phe Leu Asn Asp Ile Val Met Tyr Phe Ala Val Ala Leu Leu Gly Gly
 195 200 205
 Gly Pro Leu Thr Gly Ile Leu Tyr Ser Tyr Ser Lys Ile Val Ser Ser

```

      210              215              220
Ile Arg Ala Ile Ser Ser Ala Gln Gly Lys Tyr Lys Ala Phe Ser Thr
225              230              235              240
Cys Ala Ser His Leu Ser Val Val Ser Leu Phe Tyr Gly Thr Cys Leu
      245              250              255
Gly Val Tyr Leu Ser Ser Ala Ala Thr His Asn Ser His Thr Gly Ala
      260              265              270
Ala Ala Ser Val Met Tyr Thr Val Val Thr Pro Met Leu Asn Pro Phe
      275              280              285
Ile Tyr Ser Leu Arg Asn Lys His Ile Lys Gly Ala Met Lys Thr Phe
      290              295              300
Phe Arg Gly Lys Gln
305

```

<210> 1854
 <211> 82
 <212> PRT
 <213> Unknown (H38g772 protein)

<220>
 <223> Synthetic construct

```

<400> 1854
Met Val Thr Glu Phe Leu Pro Leu Gly Phe Leu Leu Gly Pro Arg Ile
 1              5              10              15
Gln Met Leu Leu Leu Gly Leu Phe Ser Leu Phe Tyr Val Phe Thr Pro
      20              25              30
Leu Gly Asn Gly Thr Ile Pro Gly Leu Ile Ser Leu Asp Ser Arg Leu
      35              40              45
His Thr Pro Met Tyr Phe Phe Leu Ser His Leu Ala Val Val Asn Ile
      50              55              60
Ala Tyr Ala Cys Asn Thr Val Pro Gln Met Leu Val Asn Leu Leu His
      65              70              75              80
Pro Ala

```

<210> 1855
 <211> 216
 <212> PRT
 <213> Unknown (H38g773 protein)

<220>
 <223> Synthetic construct

```

<400> 1855
Leu Met Asp Leu Lys Leu Ile Cys Thr Thr Val Pro Lys Met Ala Phe
 1              5              10              15
Asn Tyr Leu Ser Gly Ser Lys Ser Ile Ser Met Ala Gly Cys Val Thr
      20              25              30
Gln Ile Phe Phe Tyr Ile Ser Leu Ser Gly Ser Glu Cys Phe Leu Leu
      35              40              45
Ala Val Met Ala Tyr Asp Arg Tyr Ile Ala Ile Cys His Pro Leu Arg
      50              55              60
Tyr Thr Asn Leu Met Asn Pro Lys Ile Cys Gly Leu Met Ala Thr Phe
      65              70              75              80
Ser Trp Ile Leu Gly Ser Thr Asp Gly Ile Ile Asp Ala Val Ala Thr
      85              90              95
Phe Ser Phe Ser Phe Cys Gly Ser Arg Glu Ile Ala His Phe Phe Cys
      100              105              110
Glu Phe Pro Ser Leu Leu Ile Leu Ser Cys Asn Asp Thr Ser Ile Phe
      115              120              125

```

Glu Glu Val Ile Phe Ile Cys Cys Ile Val Met Leu Val Phe Pro Val
 130 135 140
 Ala Ile Ile Ile Ala Ser Tyr Ala Arg Val Ile Leu Ala Val Ile His
 145 150 155 160
 Met Gly Ser Gly Glu Gly Arg Cys Lys Ala Phe Thr Thr Cys Ser Ser
 165 170 175
 His Leu Met Val Val Gly Met Tyr Tyr Gly Ala Ala Leu Phe Met Tyr
 180 185 190
 Ile Arg Pro Thr Ser Asp His Ser Pro Thr Gln Asp Lys Met Val Ser
 195 200 205
 Val Phe Tyr Thr Ile Leu Thr Pro
 210 215

<210> 1856
 <211> 305
 <212> PRT
 <213> Unknown (H38g774 protein)

<220>
 <223> Synthetic construct

<221> VARIANT
 <222> (1)...(305)
 <223> Xaa = Any Amino Acid

<400> 1856
 Met Lys Pro Gly Asn Asp Thr Arg Ile Ser Glu Phe Leu Leu Leu Gly
 1 5 10 15
 Leu Ser Ala Glu Pro Glu Leu Gln Pro Phe Phe Phe Gly Leu Phe Leu
 20 25 30
 Ser Met Tyr Leu Val Thr Val Leu Gly Asn Leu Leu Ile Ile Leu Ala
 35 40 45
 Thr Ile Ser Asp Ser His Leu His Thr Pro Met Tyr Phe Phe Leu Ser
 50 55 60
 Asn Leu Ser Phe Ala Asp Ile Ser Phe Val Ser Thr Thr Val Pro Lys
 65 70 75 80
 Met Leu Val Asn Ile Gln Thr Gln Ser Arg Val Ile Thr Tyr Ala Gly
 85 90 95
 Cys Ile Thr Gln Met Cys Phe Phe Leu Leu Phe Ala Val Leu Asp Ser
 100 105 110
 Leu Leu Leu Ala Val Met Ala Tyr Asp Arg Phe Val Ala Ile Cys His
 115 120 125
 Pro Leu Tyr Tyr Thr Ile Ile Met Asn Pro Gln Phe Tyr Ser Trp Ile
 130 135 140
 Leu Ser Val Leu Asn Ser Leu Leu Gln Ser Leu Met Val Leu Pro Leu
 145 150 155 160
 Pro Phe Tyr Thr Asp Ile Ala Ile Pro His Phe Phe Cys Glu Leu Asn
 165 170 175
 Gln Ile Ile Cys Ile Ala Cys Ser Asp Thr Phe Leu Asn Asp Ile Met
 180 185 190
 Ile Tyr Cys Ala Thr Val Leu Leu Gly Gly Gly Pro Leu Thr Gly Ile
 195 200 205
 Leu Tyr Ser Tyr Ser Lys Ile Val Ser Ser Ile Arg Ala Ile Ser Ser
 210 215 220
 Ala Gln Gly Lys Tyr Lys Ala Phe Ser Thr Cys Ala Ser His Leu Ser
 225 230 235 240
 Val Val Ser Leu Phe Tyr Gly Thr Ser Leu Gly Met Tyr Leu Ser Ser
 245 250 255
 Ala Ala Thr His Asn Ser Pro Ser Ser Ala Thr Ala Ser Val Met Tyr
 260 265 270
 Thr Val Val Thr Pro Met Leu Asn Pro Phe Ile Tyr Ser Leu Arg Asn

275 280 285
 Lys Asp Leu Lys Asp Ala Leu Lys Arg Phe Phe Arg Arg Lys Gln Xaa
 290 295 300
 Lys
 305

<210> 1857
 <211> 120
 <212> PRT
 <213> Unknown (H38g775 protein)

<220>
 <223> Synthetic construct

<400> 1857
 Phe Ser Leu Ser His Leu Ala Val Val Asp Ile Ala Tyr Ala Cys Asn
 1 5 10 15
 Thr Val Pro Arg Met Leu Val Asn Leu Leu His Pro Ala Lys Pro Ile
 20 25 30
 Ser Phe Ala Gly Arg Met Met Gln Thr Phe Leu Phe Ser Thr Phe Ala
 35 40 45
 Val Thr Glu Cys Phe Leu Leu Val Val Lys Ser Asn Asp Leu Tyr Val
 50 55 60
 Ala Ile Cys His Pro Ser Arg Tyr Leu Ala Ile Met Thr Trp Arg Val
 65 70 75 80
 Cys Ile Thr Leu Ala Val Thr Ser Trp Thr Thr Gly Val Leu Leu Ser
 85 90 95
 Leu Ile His Leu Val Leu Leu Leu Pro Leu Pro Phe Cys Arg Pro Gln
 100 105 110
 Lys Ile Tyr His Phe Phe Cys Glu
 115 120

<210> 1858
 <211> 214
 <212> PRT
 <213> Unknown (H38g776 protein)

<220>
 <223> Synthetic construct

<221> VARIANT
 <222> (1)...(214)
 <223> Xaa = Any Amino Acid

<400> 1858
 Leu Pro Asp Ile Gly Phe Thr Ser Thr Thr Val Pro Lys Met Ile Val
 1 5 10 15
 Asp Ile Gln Ser His Ser Arg Val Ile Ser Tyr Ala Gly Cys Leu Thr
 20 25 30
 Gln Met Ser Leu Phe Ala Ile Phe Gly Gly Met Glu Glu Asn Met Leu
 35 40 45
 Pro Ser Val Met Ala Tyr Asp Arg Phe Val Ala Ile Cys His Pro Leu
 50 55 60
 Tyr His Ser Ala Ile Met Asn Pro Cys Phe Cys Gly Phe Leu Val Leu
 65 70 75 80
 Leu Ser Phe Phe Leu Ser Phe Ser Gln Leu His Asn Leu Ile Ala Leu
 85 90 95
 Gln Met Thr Cys Phe Lys Asn Val Gly Ile Pro Asn Phe Leu Cys Asp
 100 105 110
 Pro Ser Gln Leu Pro His Leu Thr Cys Cys Asp Thr Phe Thr Asn His
 115 120 125

Ile Ile Met Tyr Phe Pro Ala Ala Ile Phe Gly Phe Leu Pro Ile Ser
 130 135 140
 Gly Thr Leu Phe Ser Tyr His Val Ile Val Ser Ser Ile Leu Arg Val
 145 150 155 160
 Ser Ser Ser Gly Gly Lys Tyr Lys Ala Phe Ser Thr Tyr Gly Ser His
 165 170 175
 Leu Ser Asp Val Ser Xaa Phe Tyr Gly Thr Gly Val Gly Gly Tyr Leu
 180 185 190
 Ser Ser Asp Val Ser Ser Ser Pro Arg Lys Thr Ala Val Ala Ser Val
 195 200 205
 Met Tyr Ala Val Val Thr
 210

<210> 1859

<211> 166

<212> PRT

<213> Unknown (H38g777 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(166)

<223> Xaa = Any Amino Acid

<400> 1859

Val Lys Asn Gln Thr Met Val Thr Glu Phe Leu Leu Leu Gly Phe Phe
 1 5 10 15
 Leu Ser Pro Arg Ile His Met Leu Leu Phe Gly Leu Phe Tyr Leu Phe
 20 25 30
 Tyr Val Phe Thr Leu Leu Gly Asn Gly Thr Ile Leu Gly Leu Ile Ser
 35 40 45
 Leu Asp Ser Ile Leu His Thr Pro Met Tyr Phe Phe Leu Xaa His Leu
 50 55 60
 Ser Val Val Asn Ile Ala Tyr Ala Cys Asn Thr Val Pro Gln Met Leu
 65 70 75 80
 Val Asn Leu Leu His Ser Ala Lys Pro Ile Tyr Phe Ala Gly Cys Met
 85 90 95
 Thr Tyr Thr Phe Leu Phe Leu Arg Phe Ala His Thr Glu Cys Leu Leu
 100 105 110
 Leu Val Leu Met Ser Tyr Asp Trp Tyr Val Ala Ile Leu Thr Pro Leu
 115 120 125
 Arg Tyr Ile Ile Ile Met Thr Trp Lys Val Phe Ile Ile Ser Ala Ile
 130 135 140
 Thr Ser Trp Thr Cys Gly Ser Phe Leu Ser Met Val His Val Ser Leu
 145 150 155 160
 Ile Leu Arg Leu Pro Phe
 165

<210> 1860

<211> 93

<212> PRT

<213> Unknown (H38g778 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(93)

<223> Xaa = Any Amino Acid

<400> 1860

```

Gln Met Ser Leu Phe Val Ile Phe Ala Ser Ala Glu Cys Asn Leu Phe
 1          5          10          15
Lys Leu Ala Leu Ala Tyr Arg Pro Xaa Cys Tyr Cys His Leu Cys Thr
          20          25          30
His Pro Phe Tyr His Ile Asp His Val Xaa Glu Ala Ile Ile Phe Phe
          35          40          45
Leu Val Ala Gly Cys Tyr Leu Gly Gly Leu Val Lys Met Val Thr Val
          50          55          60
Thr Thr Ser Ile Thr Gln Leu Ser Leu Cys Gln Pro Cys Val His Leu
65          70          75          80
His Phe Phe Cys Asp Ile Pro Ser Phe Cys Ser Tyr Ser
          85          90

```

<210> 1861

<211> 215

<212> PRT

<213> Unknown (H38g779 protein)

<220>

<223> Synthetic construct

<400> 1861

```

Phe Ser Asp Leu Cys Phe Ser Ser Val Thr Ile Pro Lys Leu Leu Gln
 1          5          10          15
Asn Met Gln Ser Gln Val Pro Thr Ile Ser Tyr Ala Asp Cys Leu Thr
          20          25          30
Gln Leu Tyr Phe Phe Met Val Phe Gly Asp Met Glu Ser Phe Leu Leu
          35          40          45
Val Val Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Phe Pro Leu His
          50          55          60
Tyr Thr Ser Ile Met Ser Thr Lys Phe Cys Ala Leu Leu Val Leu Leu
65          70          75          80
Leu Trp Met Leu Thr Ile Ser His Ala Leu Leu His Thr Leu Leu Met
          85          90          95
Ala Arg Leu Ser Phe Cys Glu Lys Asn Val Ile Leu His Phe Phe Cys
          100          105          110
Asp Ile Ser Ala Leu Leu Lys Leu Ser Cys Ser Asp Thr Tyr Val Asn
          115          120          125
Glu Leu Met Ile Phe Ile Met Gly Gly Ile Ile Ser Ile Ile Pro Phe
          130          135          140
Leu Leu Ile Val Met Ser Tyr Val Arg Ile Phe Phe Ser Ile Leu Lys
145          150          155          160
Val Pro Ser Ser Gln Asp Ile His Lys Val Phe Ser Thr Cys Gly Ser
          165          170          175
His Leu Ser Val Val Thr Leu Phe Tyr Gly Thr Ile Ile Gly Leu Tyr
          180          185          190
Leu Cys Pro Ser Gly Asn Asn Ser Thr Val Asn Glu Ile Ser Met Ala
          195          200          205
Met Met Tyr Thr Val Val Ala
          210          215

```

<210> 1862

<211> 219

<212> PRT

<213> Unknown (H38g780 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(219)

<223> Xaa = Any Amino Acid

<400> 1862

```

Ser Asn Leu Ser Phe Thr Asp Leu Xaa Phe Ser Ser Val Thr Met Pro
1      5      10      15
Lys Leu Leu Gln Asn Met Gln Ser Gln Val Pro Ser Ile Pro Tyr Ala
20      25      30
Gly Cys Leu Thr Gln Met Tyr Phe Leu Leu Phe Phe Gly Asp Leu Glu
35      40      45
Ser Phe Leu Leu Val Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys
50      55      60
Phe Pro Leu His Tyr Thr Ser Ile Met Ser Pro Arg Leu Cys Val Ser
65      70      75      80
Leu Val Leu Leu Ser Trp Leu Leu Thr Met Ser His Ser Met Leu His
85      90      95
Thr Leu Leu Leu Thr Arg Leu Ser Phe Cys Glu Asn Asn Val Ile Pro
100     105     110
His Phe Phe Cys Asp Leu Ser Ala Leu Leu Lys Leu Ala Cys Ser Asp
115     120     125
Ile His Ile Asn Glu Leu Val Ile Leu Ile Ile Gly Gly Leu Val Val
130     135     140
Ile Leu Pro Phe Leu Leu Ile Thr Val Ser Tyr Ala Arg Ile Ile Ser
145     150     155     160
Ser Ile Leu Lys Val Pro Ser Thr Gln Gly Ile His Lys Val Phe Ser
165     170     175
Thr Cys Gly Ser His Leu Ser Val Val Ser Leu Phe Tyr Gly Thr Ile
180     185     190
Ile Gly Leu Tyr Leu Cys Pro Ser Ala Asn Asn Ser Thr Leu Lys Asp
195     200     205
Thr Val Met Ser Met Met Tyr Thr Val Val Thr
210     215

```

<210> 1863

<211> 314

<212> PRT

<213> Unknown (H38g781 protein)

<220>

<223> Synthetic construct

<400> 1863

```

Met Glu Asn Asn Thr Glu Val Thr Glu Phe Ile Leu Val Gly Leu Thr
1      5      10      15
Asp Asp Pro Glu Leu Gln Ile Pro Leu Phe Ile Val Phe Leu Phe Ile
20      25      30
Tyr Leu Ile Thr Leu Val Gly Asn Leu Gly Met Ile Glu Leu Ile Leu
35      40      45
Leu Asp Ser Cys Leu His Thr Pro Met Tyr Phe Phe Leu Ser Asn Leu
50      55      60
Ser Leu Val Asp Phe Gly Tyr Ser Ser Ala Val Thr Pro Lys Val Met
65      70      75      80
Val Gly Phe Leu Thr Gly Asp Lys Phe Ile Leu Tyr Asn Ala Cys Ala
85      90      95
Thr Gln Phe Phe Phe Phe Val Ala Phe Ile Thr Ala Glu Ser Phe Leu
100     105     110
Leu Ala Ser Met Ala Tyr Asp Arg Tyr Ala Ala Leu Cys Lys Pro Leu
115     120     125
His Tyr Thr Thr Thr Met Thr Thr Asn Val Cys Ala Cys Leu Ala Ile
130     135     140
Gly Ser Tyr Ile Cys Gly Phe Leu Asn Ala Ser Ile His Thr Gly Asn

```

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 145 | | 150 | | 155 | | 160 | | | | | | | | | |
| Thr | Phe | Arg | Leu | Ser | Phe | Cys | Arg | Ser | Asn | Val | Val | Glu | His | Phe | Phe |
| | | | | 165 | | | | | 170 | | | | | 175 | |
| Cys | Asp | Ala | Pro | Pro | Leu | Leu | Thr | Leu | Ser | Cys | Ser | Asp | Asn | Tyr | Ile |
| | | | 180 | | | | | 185 | | | | | 190 | | |
| Ser | Glu | Met | Val | Ile | Phe | Phe | Val | Val | Gly | Phe | Asn | Asp | Leu | Phe | Ser |
| | | 195 | | | | | 200 | | | | | 205 | | | |
| Ile | Leu | Val | Ile | Leu | Ile | Ser | Tyr | Leu | Phe | Ile | Phe | Ile | Thr | Ile | Met |
| | 210 | | | | | 215 | | | | | 220 | | | | |
| Lys | Met | Arg | Ser | Pro | Glu | Gly | Arg | Gln | Lys | Ala | Phe | Ser | Thr | Cys | Ala |
| 225 | | | | | 230 | | | | | 235 | | | | 240 | |
| Ser | His | Leu | Thr | Ala | Val | Ser | Ile | Phe | Tyr | Gly | Thr | Gly | Ile | Phe | Met |
| | | | | 245 | | | | | 250 | | | | | 255 | |
| Tyr | Leu | Arg | Pro | Asn | Ser | Ser | His | Phe | Met | Gly | Thr | Asp | Lys | Met | Ala |
| | | | 260 | | | | | 265 | | | | | 270 | | |
| Ser | Val | Phe | Tyr | Ala | Ile | Val | Ile | Pro | Met | Leu | Asn | Pro | Leu | Val | Tyr |
| | | 275 | | | | | 280 | | | | | 285 | | | |
| Ser | Leu | Arg | Asn | Lys | Glu | Val | Lys | Ser | Ala | Phe | Lys | Lys | Thr | Val | Gly |
| | 290 | | | | | 295 | | | | | 300 | | | | |
| Lys | Ala | Lys | Ala | Ser | Ile | Gly | Phe | Ile | Phe | | | | | | |
| 305 | | | | | 310 | | | | | | | | | | |

<210> 1864

<211> 189

<212> PRT

<213> Unknown (H38g782 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(189)

<223> Xaa = Any Amino Acid

<400> 1864

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Thr | Lys | Glu | Leu | Cys | Phe | Leu | Gly | Val | Tyr | Ile | Pro | Lys | Gly | Asp |
| 1 | | | | 5 | | | | 10 | | | | | | 15 | |
| Ala | Cys | Trp | Lys | Xaa | Leu | Xaa | Leu | Gly | Leu | His | Leu | Leu | Leu | Leu | Gly |
| | | | 20 | | | | | 25 | | | | | 30 | | |
| Xaa | Gln | Val | Val | Ser | Met | Val | Gly | Asn | Leu | Ala | Leu | Ile | Ala | Leu | Ile |
| | | 35 | | | | | 40 | | | | | 45 | | | |
| Gly | Xaa | Asn | Ser | Tyr | Leu | His | His | Pro | Gln | Ala | Leu | Phe | Ser | Phe | Thr |
| | 50 | | | | 55 | | | | | | 60 | | | | |
| Gln | Ser | Phe | Pro | Asp | Leu | Tyr | Cys | Pro | Val | Cys | Thr | Pro | Arg | Met | Leu |
| 65 | | | | | 70 | | | | 75 | | | | | 80 | |
| Met | Thr | Phe | Val | Ser | Lys | Lys | Asn | Ile | Phe | Tyr | Val | Arg | Cys | Met | Thr |
| | | | | 85 | | | | 90 | | | | | | 95 | |
| Gln | Leu | Ser | Gln | Leu | Phe | Phe | Leu | Phe | Ile | Val | Leu | Ser | Ile | Lys | Tyr |
| | | | 100 | | | | | 105 | | | | | 110 | | |
| His | Val | Leu | Met | Phe | Ile | Ala | Cys | Gly | Cys | Leu | Val | Ala | Ile | Tyr | Asn |
| | | 115 | | | | | 120 | | | | | 125 | | | |
| Pro | Ser | Leu | His | Glu | Val | Thr | Met | Ser | Pro | Gln | Val | Arg | Glu | Met | Arg |
| | | 130 | | | | 135 | | | | | 140 | | | | |
| Glu | Ser | Gly | Phe | Ala | Gly | Thr | Thr | Ala | His | Thr | Gly | His | Ile | Leu | Arg |
| 145 | | | | | 150 | | | | 155 | | | | | 160 | |
| Pro | Asn | Leu | Cys | Asn | Ile | Asp | Val | Ile | Asn | His | His | Leu | Thr | Asp | Ser |
| | | | | 165 | | | | | 170 | | | | | 175 | |
| Leu | Leu | Val | Leu | Xaa | Val | Ser | Cys | Thr | Ser | Thr | Cys | Ala | | | |
| | | | 180 | | | | | 185 | | | | | | | |

<210> 1865

<211> 311
 <212> PRT
 <213> Unknown (H38g783 protein)

<220>
 <223> Synthetic construct

<400> 1865

```

Met Thr Gly Gly Gly Asn Ile Thr Glu Ile Thr Tyr Phe Ile Leu Leu
 1           5           10           15
Gly Phe Ser Asp Phe Pro Arg Ile Ile Lys Val Leu Phe Thr Ile Phe
          20           25           30
Leu Val Ile Tyr Ile Thr Ser Leu Ala Trp Asn Leu Ser Leu Ile Val
          35           40           45
Leu Ile Arg Met Asp Ser His Leu His Thr Pro Met Tyr Phe Phe Leu
          50           55           60
Ser Asn Leu Ser Phe Ile Asp Val Cys Tyr Ile Ser Ser Thr Val Pro
65           70           75           80
Lys Met Leu Ser Asn Leu Leu Gln Glu Gln Gln Thr Ile Thr Phe Val
          85           90           95
Gly Cys Ile Ile Gln Tyr Phe Ile Phe Ser Thr Met Gly Leu Ser Glu
          100          105          110
Ser Cys Leu Met Thr Ala Met Ala Tyr Asp Arg Tyr Ala Ala Ile Cys
          115          120          125
Asn Pro Leu Leu Tyr Ser Ser Ile Met Ser Pro Thr Leu Cys Val Trp
          130          135          140
Met Val Leu Gly Ala Tyr Met Thr Gly Leu Thr Ala Ser Leu Phe Gln
145          150          155          160
Ile Gly Ala Leu Leu Gln Leu His Phe Cys Gly Ser Asn Val Ile Arg
          165          170          175
His Phe Phe Cys Asp Met Pro Gln Leu Ile Leu Ser Cys Thr Asp
          180          185          190
Thr Phe Phe Val Gln Val Met Thr Ala Ile Leu Thr Met Phe Phe Gly
          195          200          205
Ile Ala Ser Ala Leu Val Ile Met Ile Ser Tyr Gly Tyr Ile Gly Ile
          210          215          220
Ser Ile Met Lys Ile Thr Ser Ala Lys Gly Arg Pro Lys Ala Phe Asn
225          230          235          240
Thr Cys Ala Ser His Leu Thr Ala Val Ser Leu Phe Tyr Thr Ser Gly
          245          250          255
Ile Phe Val Tyr Leu Arg Ser Ser Ser Gly Gly Ser Ser Ser Phe Asp
          260          265          270
Arg Phe Ala Ser Val Phe Tyr Thr Val Val Ile Pro Met Leu Asn Pro
          275          280          285
Leu Ile Tyr Ser Leu Arg Asn Lys Glu Ile Lys Asp Ala Leu Lys Arg
          290          295          300
Leu Gln Lys Arg Lys Cys Cys
305           310

```

<210> 1866
 <211> 312
 <212> PRT
 <213> Unknown (H38g784 protein)

<220>
 <223> Synthetic construct

<400> 1866

```

Met Thr Gly Glu Arg Asn Ser Thr Arg Ile Thr Lys Phe Ile Leu Leu
 1           5           10           15
Gly Phe Ser Glu Phe Pro Lys Asn Pro Ile Phe Leu Phe Ser Ile Phe

```

```
<210> 1867
<211> 444
<212> PRT
<213> Unknown (H38g785 protein)
```

<220>
<223> Synthetic construct

```
<221> VARIANT
<222> (1)...(444)
<223> Xaa = Any Amino Acid
```

| | | | | | | | | | | | | | | | | |
|------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| <400> 1867 | | | | | | | | | | | | | | | | |
| Met | Thr | Val | Glu | Arg | Ser | Ser | Met | Thr | Ile | Thr | Lys | Phe | Ile | Leu | Leu | |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | | |
| Gly | Phe | Ser | Glu | Tyr | Ser | Lys | Thr | Thr | Ile | Phe | Leu | Phe | Ser | Val | Phe | |
| | | | 20 | | | | | 25 | | | | | 30 | | | |
| Leu | Gly | Ile | Tyr | Leu | Leu | Thr | Met | Ser | Xaa | Asn | Val | Ser | Leu | Ile | Ala | |
| | | 35 | | | | | 40 | | | | | 45 | | | | |
| Leu | Ile | Arg | Thr | Asp | Ser | His | Leu | His | Ala | Pro | Val | Tyr | Phe | Phe | Leu | |
| | 50 | | | | | 55 | | | | | 60 | | | | | |
| Ser | Asn | Pro | Ser | Phe | Leu | Asp | Ile | Cys | Cys | Val | Ser | Thr | Ile | Ala | Pro | |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 | |

Lys Met Pro Ser Asp Phe Phe Lys Lys His Lys Phe Ile Ser Phe Met
 85 90 95
 Gly Cys Thr Met Gln Tyr Phe Ser Ser Leu Asn Val Thr Glu Cys Cys
 100 105 110
 Leu Leu Thr Ala Met Ala Tyr Asp Xaa Tyr Ala Ala Ile Cys Asp Pro
 115 120 125
 Leu Leu Tyr Thr Ala Ile Met Ser Pro Ala Leu Cys Met Pro Met Val
 130 135 140
 Ala Gly Ser Cys Thr Thr Gly Tyr Phe Val Ser Phe Ile Gln Leu Cys
 145 150 155 160
 Ala Leu Leu Leu Leu His Phe Cys Glu Ser Asn Ser Ser His Phe Phe
 165 170 175
 Cys Asp Leu Pro Gln Leu Leu Ile Leu Ser Cys Ser His Thr Val Phe
 180 185 190
 Phe Phe Ser Ser His Asp His Tyr Ala His Ser Asn Leu Tyr Thr His
 195 200 205
 Leu Tyr Leu Gly Tyr His Asp Asn Leu Trp Leu Tyr His Cys Gln His
 210 215 220
 Ser Ser Leu Leu Trp Asp Ala Pro Cys Asn Thr Ser Ser Leu Ala Trp
 225 230 235 240
 Val Xaa Leu Ser Ala Val Phe Trp Lys Leu Trp Leu Ile Ile Asp Met
 245 250 255
 Leu Pro Phe Val Thr Leu Cys Ser Thr Trp Pro Ser Met Ser Pro Thr
 260 265 270
 Ser Val Cys Thr Xaa Trp Leu Glu Pro Val Xaa Leu Leu Ser Leu Ala
 275 280 285
 His Leu Ser Asn Tyr Val Leu Cys Phe Ser Ser Ile Ser Val Gly Gln
 290 295 300
 Ile Val Asn His Phe Phe Cys Asp Leu Pro Gln Leu Leu Ile Leu Ser
 305 310 315 320
 Cys Tyr Asp Thr Phe Phe Cys Gln Val Met Thr Ser Met Leu Thr Val
 325 330 335
 Val Phe Gly Leu Thr Ser Val Leu Val Ile Met Ile Phe Tyr Gly Tyr
 340 345 350
 Val Ile Ala Thr Ile Leu Lys Ile Ile Ser Val Glu Gly Arg Ser Lys
 355 360 365
 Val Phe Asn Thr Gly Gly Ser His Leu Ile Ala Val Thr Leu Phe Tyr
 370 375 380
 Cys Ser Arg Ile Phe Val Tyr Met Cys Ser His Ser Asp Ala Ser Leu
 385 390 395 400
 Ser Arg Asn Lys Val Asp Ser Ile Val Tyr Thr Val Val Ile Pro Arg
 405 410 415
 Leu Asn Pro Leu Ile Tyr Ser Leu Ser Asp Lys Xaa Ile Lys Asp Ala
 420 425 430
 Leu Lys Arg Trp Thr Lys Arg Ile Phe Ser Trp Pro
 435 440

<210> 1868

<211> 310

<212> PRT

<213> Unknown (H38g786 protein)

<220>

<223> Synthetic construct

<400> 1868

Met Gly Glu Asn Gln Thr Met Val Thr Glu Phe Leu Leu Leu Gly Phe
 1 5 10 15
 Leu Leu Gly Pro Arg Ile Gln Met Leu Leu Phe Gly Leu Phe Ser Leu
 20 25 30
 Phe Tyr Ile Phe Thr Leu Leu Gly Asn Gly Ala Ile Leu Gly Leu Ile

| | | |
|---|-----|-----|
| 35 | 40 | 45 |
| Ser Leu Asp Ser Arg Leu His Thr Pro Met Tyr Phe Phe Leu Ser His | | |
| 50 | 55 | 60 |
| Leu Ala Val Val Asp Ile Ala Tyr Thr Arg Asn Thr Val Pro Gln Met | | |
| 65 | 70 | 75 |
| Leu Ala Asn Leu Leu His Pro Ala Lys Pro Ile Ser Phe Ala Gly Cys | | 80 |
| | 85 | 90 |
| Met Thr Gln Thr Phe Leu Cys Leu Ser Phe Gly His Ser Glu Cys Leu | | 95 |
| | 100 | 105 |
| Leu Leu Val Leu Met Ser Tyr Asp Arg Tyr Val Ala Ile Cys His Pro | | 110 |
| | 115 | 120 |
| Leu Arg Tyr Ser Val Ile Met Thr Trp Arg Val Cys Ile Thr Leu Ala | | 125 |
| | 130 | 135 |
| Val Thr Ser Trp Thr Cys Gly Ser Leu Leu Ala Leu Ala His Val Val | | 140 |
| | 145 | 150 |
| Leu Ile Leu Arg Leu Pro Phe Ser Gly Pro His Glu Ile Asn His Phe | | 155 |
| | 165 | 170 |
| Phe Cys Glu Ile Leu Ser Val Leu Arg Leu Ala Cys Ala Asp Thr Trp | | 175 |
| | 180 | 185 |
| Leu Asn Gln Val Val Ile Phe Ala Ala Cys Val Phe Phe Leu Val Gly | | 190 |
| | 195 | 200 |
| Pro Pro Ser Leu Val Leu Val Ser Tyr Ser His Ile Leu Ala Ala Ile | | 205 |
| | 210 | 215 |
| Leu Arg Ile Gln Ser Gly Glu Gly Arg Arg Lys Ala Phe Ser Thr Cys | | 220 |
| | 225 | 230 |
| Ser Ser His Leu Cys Val Val Gly Leu Phe Phe Gly Ser Ala Ile Ile | | 235 |
| | 245 | 250 |
| Met Tyr Met Ala Pro Lys Ser Arg His Pro Glu Glu Gln Gln Lys Val | | 255 |
| | 260 | 265 |
| Phe Phe Leu Phe Tyr Ser Phe Phe Asn Pro Thr Leu Asn Pro Leu Ile | | 270 |
| | 275 | 280 |
| Tyr Ser Leu Arg Asn Gly Glu Val Lys Gly Ala Leu Arg Arg Ala Leu | | 285 |
| | 290 | 295 |
| Gly Lys Glu Ser His Ser | | 300 |
| 305 | 310 | |

<210> 1869

<211> 314

<212> PRT

<213> Unknown (H38g787 protein)

<220>

<223> Synthetic construct

<400> 1869

| | | |
|---|-----|-----|
| Met Glu Arg Gln Asn Gln Ser Cys Val Val Glu Phe Ile Leu Leu Gly | | |
| 1 | 5 | 10 |
| Phe Ser Asn Tyr Pro Glu Leu Gln Gly Gln Leu Phe Val Ala Phe Leu | | 15 |
| | 20 | 25 |
| Val Ile Tyr Leu Val Thr Leu Ile Gly Asn Ala Ile Ile Ile Val Ile | | 30 |
| | 35 | 40 |
| Val Ser Leu Asp Gln Ser Leu His Val Pro Met Tyr Leu Phe Leu Leu | | 45 |
| | 50 | 55 |
| Asn Leu Ser Val Val Asp Leu Ser Phe Ser Ala Val Ile Met Pro Glu | | 60 |
| | 65 | 70 |
| Met Leu Val Val Leu Ser Thr Glu Lys Thr Thr Ile Ser Phe Gly Gly | | 75 |
| | 85 | 90 |
| Cys Phe Ala Gln Met Tyr Phe Ile Leu Leu Phe Gly Gly Ala Glu Cys | | 95 |
| | 100 | 105 |
| Phe Leu Leu Gly Ala Met Ala Tyr Asp Arg Phe Ala Ala Ile Cys His | | 110 |
| | 115 | 120 |
| | | 125 |


```

Pro Leu Asn Tyr Gln Met Ile Met Asn Lys Gly Val Phe Met Lys Leu
  130                      135                      140
Ile Ile Phe Ser Trp Ala Leu Gly Phe Met Leu Gly Thr Val Gln Thr
  145                      150                      155                      160
Ser Trp Val Ser Ser Phe Pro Phe Cys Gly Leu Asn Glu Ile Asn His
                      165                      170                      175
Ile Ser Cys Glu Thr Pro Ala Val Leu Glu Leu Ala Cys Ala Asp Thr
                      180                      185                      190
Phe Leu Phe Glu Ile Tyr Ala Phe Thr Gly Thr Phe Leu Ile Ile Leu
                      195                      200                      205
Val Pro Phe Leu Leu Ile Leu Leu Ser Tyr Ile Arg Val Leu Phe Ala
                      210                      215                      220
Ile Leu Lys Met Pro Ser Thr Thr Gly Arg Gln Lys Ala Phe Ser Thr
  225                      230                      235                      240
Cys Ala Ala His Leu Thr Ser Val Thr Leu Phe Tyr Gly Thr Ala Ser
                      245                      250                      255
Met Thr Tyr Leu Gln Pro Lys Ser Gly Tyr Ser Pro Glu Thr Lys Lys
                      260                      265                      270
Val Met Ser Leu Ser Tyr Ser Leu Leu Thr Pro Leu Leu Asn Leu Leu
                      275                      280                      285
Ile Tyr Ser Leu Arg Asn Ser Glu Met Lys Arg Ala Leu Met Lys Leu
                      290                      295                      300
Trp Arg Arg Arg Val Val Leu His Thr Ile
  305                      310

```

<210> 1870

<211> 331

<212> PRT

<213> Unknown (H38g788 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(331)

<223> Xaa = Any Amino Acid

<400> 1870

```

Met Val Thr Glu Phe Leu Leu Leu Gly Phe Leu Leu Gly Pro Arg Ile
  1                      5                      10                      15
Gln Met Leu Leu Phe Gly Leu Phe Ser Leu Phe Tyr Val Phe Thr Leu
                      20                      25                      30
Leu Gly Asn Gly Thr Ile Leu Gly Leu Ile Ser Leu Asp Ser Arg Leu
                      35                      40                      45
His Thr Pro Met Tyr Phe Phe Leu Ser His Leu Ala Val Val Asn Ile
                      50                      55                      60
Ala Tyr Ala Cys Asn Thr Val Pro Gln Met Leu Val Asn Leu Leu His
  65                      70                      75                      80
Pro Ala Lys Pro Ile Ser Phe Ala Gly Cys Met Thr Xaa Thr Phe Leu
                      85                      90                      95
Phe Leu Ser Phe Ala His Thr Glu Cys Leu Leu Leu Val Leu Met Ser
                      100                      105                      110
Tyr Asp Arg Tyr Val Ala Ile Cys His Pro Leu Arg Tyr Phe Ile Ile
                      115                      120                      125
Met Thr Trp Lys Val Cys Ile Thr Leu Ala Ile Thr Ser Trp Thr Cys
                      130                      135                      140
Gly Ser Leu Leu Ala Met Val His Val Ser Leu Ile Leu Arg Leu Pro
  145                      150                      155                      160
Phe Cys Gly Pro Arg Glu Ile Asn His Phe Phe Cys Glu Ile Leu Ser
                      165                      170                      175
Val Leu Arg Leu Ala Cys Ala Asp Thr Trp Leu Asn Gln Val Val Ile

```

| | | | | | | | | | | | | | | | |
|------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| <400> 1871 | | | | | | | | | | | | | | | |
| Met | Gly | Asp | Asn | Ile | Thr | Ser | Ile | Thr | Glu | Phe | Leu | Leu | Leu | Gly | Phe |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |
| Pro | Val | Gly | Pro | Arg | Ile | Gln | Met | Leu | Leu | Phe | Gly | Leu | Phe | Ser | Leu |
| | | | 20 | | | | | 25 | | | | | 30 | | |
| Phe | Tyr | Val | Phe | Thr | Leu | Leu | Gly | Asn | Gly | Thr | Ile | Leu | Gly | Leu | Ile |
| | | 35 | | | | | 40 | | | | | 45 | | | |
| Ser | Leu | Asp | Ser | Arg | Leu | His | Ala | Pro | Met | Tyr | Phe | Phe | Leu | Ser | His |
| | 50 | | | | | 55 | | | | | 60 | | | | |
| Leu | Ala | Val | Val | Asp | Ile | Ala | Tyr | Ala | Cys | Asn | Thr | Val | Pro | Arg | Met |
| 65 | | | | 70 | | | | | | 75 | | | | | 80 |
| Leu | Val | Asn | Leu | Leu | His | Pro | Ala | Lys | Pro | Ile | Ser | Phe | Ala | Gly | Arg |
| | | | | 85 | | | | | 90 | | | | | 95 | |
| Met | Met | Gln | Thr | Phe | Leu | Phe | Ser | Thr | Phe | Ala | Val | Thr | Glu | Cys | Leu |
| | | | 100 | | | | | 105 | | | | | 110 | | |
| Leu | Leu | Val | Val | Met | Ser | Tyr | Asp | Leu | Tyr | Val | Ala | Ile | Cys | His | Pro |
| | | 115 | | | | | 120 | | | | | 125 | | | |
| Leu | Arg | Tyr | Leu | Ala | Ile | Met | Thr | Trp | Arg | Val | Cys | Ile | Thr | Leu | Ala |
| | 130 | | | | | 135 | | | | | 140 | | | | |
| Val | Thr | Ser | Trp | Thr | Thr | Gly | Val | Leu | Leu | Ser | Leu | Ile | His | Leu | Val |
| 145 | | | | | 150 | | | | | 155 | | | | | 160 |
| Leu | Leu | Leu | Pro | Leu | Pro | Phe | Cys | Arg | Pro | Gln | Lys | Ile | Tyr | His | Phe |
| | | | | 165 | | | | | 170 | | | | | 175 | |
| Phe | Cys | Glu | Ile | Leu | Ala | Val | Leu | Lys | Leu | Ala | Cys | Ala | Asp | Thr | His |
| | | | 180 | | | | | 185 | | | | | 190 | | |
| Ile | Asn | Glu | Asn | Met | Val | Leu | Ala | Gly | Ala | Ile | Ser | Gly | Leu | Val | Gly |
| | | 195 | | | | | 200 | | | | | 205 | | | |
| Pro | Leu | Ser | Thr | Ile | Val | Val | Ser | Tyr | Met | Cys | Ile | Leu | Cys | Ala | Ile |
| | 210 | | | | | 215 | | | | | 220 | | | | |
| Leu | Gln | Ile | Gln | Ser | Arg | Glu | Val | Gln | Arg | Lys | Ala | Phe | Cys | Thr | Cys |
| 225 | | | | | 230 | | | | | 235 | | | | | 240 |
| Phe | Ser | His | Leu | Cys | Val | Ile | Gly | Leu | Phe | Tyr | Gly | Thr | Ala | Ile | Ile |
| | | | | 245 | | | | | 250 | | | | | 255 | |

Met Tyr Val Gly Pro Arg Tyr Gly Asn Pro Lys Glu Gln Lys Lys Tyr
 260 265 270
 Leu Pro Leu Phe His Ser Leu Phe Asn Pro Met Leu Asn Pro Leu Ile
 275 280 285
 Cys Ser Leu Arg Asn Ser Glu Val Lys Asn Thr Leu Lys Arg Val Leu
 290 295 300
 Gly Val Glu Arg Ala Leu
 305 310

<210> 1872
 <211> 314
 <212> PRT
 <213> Unknown (H38g790 protein)

<220>
 <223> Synthetic construct

<400> 1872
 Met Lys Arg Gln Asn Gln Ser Cys Val Val Glu Phe Ile Leu Leu Gly
 1 5 10 15
 Phe Ser Asn Phe Pro Glu Leu Gln Val Gln Leu Phe Gly Val Phe Leu
 20 25 30
 Val Ile Tyr Val Val Thr Leu Met Gly Asn Ala Ile Ile Thr Val Ile
 35 40 45
 Ile Ser Leu Asn Gln Ser Leu His Val Pro Met Tyr Leu Phe Leu Leu
 50 55 60
 Asn Leu Ser Val Val Glu Val Ser Phe Ser Ala Val Ile Thr Pro Glu
 65 70 75 80
 Met Leu Val Val Leu Ser Thr Glu Lys Thr Met Ile Ser Phe Val Gly
 85 90 95
 Cys Phe Ala Gln Met Tyr Phe Ile Leu Leu Phe Gly Gly Thr Glu Cys
 100 105 110
 Phe Leu Leu Gly Ala Met Ala Tyr Asp Arg Phe Ala Ala Ile Cys His
 115 120 125
 Pro Leu Asn Tyr Pro Val Ile Met Asn Arg Gly Val Phe Met Lys Leu
 130 135 140
 Val Ile Phe Ser Trp Ile Ser Gly Ile Met Val Ala Thr Val Gln Thr
 145 150 155 160
 Thr Trp Val Phe Ser Phe Pro Phe Cys Gly Pro Asn Glu Ile Asn His
 165 170 175
 Leu Phe Cys Glu Thr Pro Pro Val Leu Glu Leu Val Cys Ala Asp Thr
 180 185 190
 Phe Leu Phe Glu Ile Tyr Ala Phe Thr Gly Thr Ile Leu Ile Val Met
 195 200 205
 Val Pro Phe Leu Leu Ile Leu Leu Ser Tyr Ile Arg Val Leu Phe Ala
 210 215 220
 Ile Leu Lys Met Pro Ser Thr Thr Gly Arg Gln Lys Ala Phe Ser Thr
 225 230 235 240
 Cys Ala Ser His Leu Thr Ser Val Thr Leu Phe Tyr Gly Thr Ala Asn
 245 250 255
 Met Thr Tyr Leu Gln Pro Lys Ser Gly Tyr Ser Pro Glu Thr Lys Lys
 260 265 270
 Leu Ile Ser Leu Ala Tyr Thr Leu Leu Thr Pro Leu Leu Asn Pro Leu
 275 280 285
 Ile Tyr Ser Leu Arg Asn Ser Glu Met Lys Arg Thr Leu Ile Lys Leu
 290 295 300
 Trp Arg Arg Lys Val Ile Leu His Thr Phe
 305 310

<210> 1873
 <211> 312

<212> PRT

<213> Unknown (H38g791 protein)

<220>

<223> Synthetic construct

<400> 1873

```

Met Ser Ala Asn Thr Ser Met Val Thr Glu Phe Leu Leu Leu Gly Phe
 1          5          10          15
Ser His Leu Ala Asp Leu Gln Gly Leu Leu Phe Ser Val Phe Leu Thr
 20          25          30
Ile Tyr Leu Leu Thr Val Ala Gly Asn Phe Leu Ile Val Val Leu Val
 35          40          45
Ser Thr Asp Ala Ala Leu Gln Ser Pro Met Tyr Phe Phe Leu Arg Thr
 50          55          60
Leu Ser Ala Leu Glu Ile Gly Tyr Thr Ser Val Thr Val Pro Leu Leu
 65          70          75          80
Leu His His Leu Leu Thr Gly Arg Arg His Ile Ser Arg Ser Gly Cys
 85          90          95
Ala Leu Gln Met Phe Phe Phe Leu Phe Phe Gly Ala Thr Glu Cys Cys
 100         105         110
Leu Leu Ala Ala Met Ala Tyr Asp Arg Tyr Ala Ala Ile Cys Glu Pro
 115         120         125
Leu Arg Tyr Pro Leu Leu Leu Ser His Arg Val Cys Leu Gln Leu Ala
 130         135         140
Gly Ser Ala Trp Ala Cys Gly Val Leu Val Gly Leu Gly His Thr Pro
 145         150         155         160
Phe Ile Phe Ser Leu Pro Phe Cys Gly Pro Asn Thr Ile Pro Gln Phe
 165         170         175
Phe Cys Glu Ile Gln Pro Val Leu Gln Leu Val Cys Gly Asp Thr Ser
 180         185         190
Leu Asn Glu Leu Gln Ile Ile Leu Ala Thr Ala Leu Leu Ile Leu Cys
 195         200         205
Pro Phe Gly Leu Ile Leu Gly Ser Tyr Gly Arg Ile Leu Val Thr Ile
 210         215         220
Phe Arg Ile Pro Ser Val Ala Gly Arg Arg Lys Ala Phe Ser Thr Cys
 225         230         235         240
Ser Ser His Leu Ile Val Val Ser Leu Phe Tyr Gly Thr Ala Leu Phe
 245         250         255
Ile Tyr Ile Arg Pro Lys Ala Ser Tyr Asp Pro Ala Thr Asp Pro Leu
 260         265         270
Val Ser Leu Phe Tyr Ala Val Val Thr Pro Ile Leu Asn Pro Ile Ile
 275         280         285
Tyr Ser Leu Arg Asn Thr Glu Val Lys Ala Ala Leu Lys Arg Thr Ile
 290         295         300
Gln Lys Thr Val Pro Met Glu Ile
 305         310

```

<210> 1874

<211> 276

<212> PRT

<213> Unknown (H38g792 protein)

<220>

<223> Synthetic construct

<400> 1874

```

Met Tyr Leu Val Thr Val Leu Gly Asn Leu Leu Ile Ile Leu Ala Ala
 1          5          10          15
Ile Ser Asp Ser Cys Leu His Thr Pro Met Tyr Phe Phe Leu Ser Asn
 20          25          30

```

Leu Ser Phe Val Asp Ile Cys Phe Ala Ser Thr Met Val Pro Lys Met
 35 40 45
 Leu Val Asn Ile Gln Thr Gln Ser Lys Val Ile Thr Tyr Ala Gly Cys
 50 55 60
 Ile Thr Gln Met Cys Phe Phe Val Leu Phe Ile Val Leu Asp Ser Leu
 65 70 75 80
 Leu Leu Thr Val Met Ala Tyr Asp Gln Phe Val Ala Ile Cys His Pro
 85 90 95
 Leu His Tyr Thr Val Ile Met Ser Pro Gln Leu Cys Gly Leu Leu Val
 100 105 110
 Leu Val Ser Trp Ile Met Ser Val Leu Asn Ser Met Leu Gln Ser Leu
 115 120 125
 Val Thr Leu Gln Leu Ser Phe Cys Thr Asp Leu Glu Ile Pro His Phe
 130 135 140
 Phe Cys Glu Leu Asn Glu Met Ile His Leu Ala Cys Ser Asp Thr Phe
 145 150 155 160
 Val Asn Asn Met Val Met His Phe Ala Ala Val Leu Leu Asp Gly Gly
 165 170 175
 Pro Leu Val Gly Ile Leu Tyr Ser Tyr Cys Arg Ile Val Ser Ser Ile
 180 185 190
 Arg Ala Ile Ser Ser Thr Gln Gly Lys Tyr Lys Ala Leu Ser Thr Cys
 195 200 205
 Ala Ser His Leu Ser Val Val Ser Ile Phe Tyr Gly Thr Gly Leu Gly
 210 215 220
 Val Tyr Leu Ser Ser Thr Met Thr Gln Asn Leu His Ser Thr Ala Val
 225 230 235 240
 Ala Ser Val Met Tyr Thr Val Val Thr Pro Met Leu Asn Pro Phe Ile
 245 250 255
 Tyr Ser Leu Arg Asn Lys Asp Ile Lys Gly Ala Leu Thr Gln Phe Phe
 260 265 270
 Arg Gly Lys Gln
 275

<210> 1875

<211> 317

<212> PRT

<213> Unknown (H38g793 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(317)

<223> Xaa = Any Amino Acid

<400> 1875

Ser Ile Thr Trp Glu Asn His Ser Val Leu Met Glu Phe Val Phe Leu
 1 5 10 15
 Ala Tyr Pro Ser Cys Pro Glu Leu His Ile Leu Ser Phe Leu Gly Val
 20 25 30
 Ser Leu Val Tyr Gly Leu Ile Ile Thr Gly Asn Ile Leu Ile Val Val
 35 40 45
 Ser Ile His Thr Glu Thr Cys Leu Cys Thr Ser Met Tyr Tyr Phe Leu
 50 55 60
 Gly Ser Leu Ser Gly Ile Glu Ile Cys Tyr Thr Ala Val Val Val Pro
 65 70 75 80
 His Ile Leu Ala Asn Thr Leu Gln Ser Glu Lys Thr Ser Leu Ser Val
 85 90 95
 Gly Cys Ala Thr Gln Met Ala Phe Phe Ile Ala Leu Gly Ser Ala Asp
 100 105 110
 Cys Phe Leu Leu Ala Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys

| | | |
|---|-----|-----|
| 115 | 120 | 125 |
| His Pro Leu Gln Tyr Pro Leu Leu Met Thr Leu Thr Leu Cys Val His | | |
| 130 | 135 | 140 |
| Leu Val Val Ala Ser Val Ile Ser Gly Leu Phe Leu Ser Leu Gln Leu | | |
| 145 | 150 | 155 |
| Val Ala Phe Ile Phe Ser Leu Pro Phe Cys Gln Ala Gln Gly Ile Glu | | 160 |
| | 165 | 170 |
| His Phe Phe Cys Asp Val Pro Pro Val Met His Val Val Cys Ala Gln | | 175 |
| | 180 | 185 |
| Ser His Ile His Glu Gln Ser Val Leu Val Ala Ala Ile Leu Ala Ile | | 190 |
| | 195 | 200 |
| Ala Val Pro Phe Phe Leu Ile Thr Thr Ser Tyr Thr Phe Ile Val Ala | | 205 |
| | 210 | 215 |
| Ala Leu Leu Lys Ile His Ser Ala Ala Gly Arg His Arg Ala Phe Ser | | 220 |
| 225 | 230 | 235 |
| Thr Cys Ser Ser His Leu Thr Val Val Leu Leu Gln Tyr Gly Cys Cys | | 240 |
| | 245 | 250 |
| Ala Phe Met Tyr Leu Cys Pro Ser Ser Ser Tyr Asn Pro Lys Gln Asp | | 255 |
| | 260 | 265 |
| Arg Phe Ile Ser Leu Val Tyr Thr Leu Gly Thr Pro Leu Leu Asn Pro | | 270 |
| | 275 | 280 |
| Leu Ile Tyr Ala Leu Arg Asn Ser Glu Met Lys Gly Ala Val Gly Arg | | 285 |
| | 290 | 295 |
| Val Leu Thr Arg Asn Cys Leu Ser Gln Asn Ser Xaa Glu | | 300 |
| 305 | 310 | 315 |

<210> 1876

<211> 309

<212> PRT

<213> Unknown (H38g794 protein)

<220>

<223> Synthetic construct

<400> 1876

| | |
|---|-----|
| Met Glu Pro Glu Asn Asp Thr Gly Ile Ser Glu Phe Val Leu Leu Gly | |
| 1 | 5 |
| Leu Ser Glu Glu Pro Glu Leu Gln Pro Phe Leu Phe Gly Leu Phe Leu | 10 |
| | 15 |
| | 20 |
| Ser Met Tyr Leu Val Thr Val Leu Gly Asn Leu Leu Ile Ile Leu Ala | 25 |
| | 30 |
| | 35 |
| Thr Ile Ser Asp Ser His Leu His Thr Pro Met Tyr Phe Phe Leu Ser | 40 |
| | 45 |
| | 50 |
| Asn Leu Ser Phe Ala Asp Ile Cys Phe Ile Ser Thr Thr Ile Pro Lys | 55 |
| | 60 |
| 65 | 70 |
| Met Leu Ile Asn Ile Gln Thr Gln Ser Arg Val Ile Thr Tyr Ala Gly | 75 |
| | 80 |
| | 85 |
| Cys Ile Thr Gln Met Cys Phe Phe Val Leu Phe Gly Gly Leu Asp Ser | 90 |
| | 95 |
| | 100 |
| Leu Leu Leu Ala Val Met Ala Tyr Asp Arg Phe Val Ala Ile Cys His | 105 |
| | 110 |
| | 115 |
| Pro Leu His Tyr Thr Val Ile Met Asn Pro Arg Leu Cys Gly Leu Leu | 120 |
| | 125 |
| | 130 |
| Val Leu Ala Ser Trp Met Ile Ala Ala Leu Asn Ser Leu Ser Gln Ser | 135 |
| | 140 |
| 145 | 150 |
| Leu Met Val Leu Trp Leu Ser Phe Cys Thr Asp Leu Glu Ile Pro His | 155 |
| | 160 |
| | 165 |
| Phe Phe Cys Glu Leu Asn Gln Val Ile His Leu Ala Cys Ser Asp Thr | 170 |
| | 175 |
| | 180 |
| Phe Leu Asn Asp Met Gly Met Tyr Phe Ala Ala Gly Leu Leu Ala Gly | 185 |
| | 190 |
| | 195 |
| | 200 |
| | 205 |

Gly Pro Leu Val Gly Ile Leu Cys Ser Tyr Ser Lys Ile Val Ser Ser
 210 215 220
 Ile Arg Ala Ile Ser Ser Ala Gln Gly Lys Tyr Lys Ala Phe Ser Thr
 225 230 235 240
 Cys Ala Ser His Leu Ser Val Val Ser Leu Phe Cys Cys Thr Gly Leu
 245 250 255
 Gly Val Tyr Leu Thr Ser Ala Ala Thr His Asn Ser His Thr Ser Ala
 260 265 270
 Thr Ala Ser Val Met Tyr Thr Val Ala Thr Pro Met Leu Asn Pro Phe
 275 280 285
 Ile Tyr Ser Leu Arg Asn Lys Asp Ile Lys Arg Ala Leu Lys Met Ser
 290 295 300
 Phe Arg Gly Lys Gln
 305

<210> 1877

<211> 314

<212> PRT

<213> Unknown (H38g795 protein)

<220>

<223> Synthetic construct

<400> 1877

Met Glu Asn Asn Thr Glu Val Ser Glu Phe Ile Leu Leu Gly Leu Thr
 1 5 10 15
 Asn Ala Pro Glu Leu Gln Val Pro Leu Phe Ile Met Phe Thr Leu Ile
 20 25 30
 Tyr Leu Ile Thr Leu Thr Gly Asn Leu Gly Met Ile Ile Leu Ile Leu
 35 40 45
 Leu Asp Ser His Leu His Thr Pro Met Tyr Phe Phe Leu Ser Asn Leu
 50 55 60
 Ser Leu Ala Gly Ile Gly Tyr Ser Ser Ala Val Thr Pro Lys Val Leu
 65 70 75 80
 Thr Gly Leu Leu Ile Glu Asp Lys Ala Ile Ser Tyr Ser Ala Cys Ala
 85 90 95
 Ala Gln Met Phe Phe Cys Ala Val Phe Ala Thr Val Glu Asn Tyr Leu
 100 105 110
 Leu Ser Ser Met Ala Tyr Asp Arg Tyr Ala Ala Val Cys Asn Pro Leu
 115 120 125
 His Tyr Thr Thr Thr Met Thr Thr Arg Val Cys Ala Cys Leu Ala Ile
 130 135 140
 Gly Cys Tyr Val Ile Gly Phe Leu Asn Ala Ser Ile Gln Ile Gly Asp
 145 150 155 160
 Thr Phe Arg Leu Ser Phe Cys Met Ser Asn Val Ile His His Phe Phe
 165 170 175
 Cys Asp Lys Pro Ala Val Ile Thr Leu Thr Cys Ser Glu Lys His Ile
 180 185 190
 Ser Glu Leu Ile Leu Val Leu Ile Ser Ser Phe Asn Val Phe Phe Ala
 195 200 205
 Leu Leu Val Thr Leu Ile Ser Tyr Leu Phe Ile Leu Ile Thr Ile Leu
 210 215 220
 Lys Arg His Thr Gly Lys Gly Tyr Gln Lys Pro Leu Ser Thr Cys Gly
 225 230 235 240
 Ser His Leu Ile Ala Ile Phe Leu Phe Tyr Ile Thr Val Ile Ile Met
 245 250 255
 Tyr Ile Arg Pro Ser Ser Ser His Ser Met Asp Thr Asp Lys Ile Ala
 260 265 270
 Ser Val Phe Tyr Thr Met Ile Ile Pro Met Leu Ser Pro Ile Val Tyr
 275 280 285
 Thr Leu Arg Asn Lys Asp Val Lys Asn Ala Phe Met Lys Val Val Glu

290 295 300
 Lys Ala Lys Tyr Ser Leu Asp Ser Val Phe
 305 310

<210> 1878
 <211> 315
 <212> PRT
 <213> Unknown (H38g796 protein)

<220>
 <223> Synthetic construct

<221> VARIANT
 <222> (1)...(315)
 <223> Xaa = Any Amino Acid

<400> 1878
 Met Xaa Asn Asn Ser Lys Phe Thr Asp Phe Ile Leu Val Gly Leu Thr
 1 5 10 15
 Asn Ala Thr Glu Leu Gln Ile Pro Leu Phe Ile Leu Phe Ile Leu Ile
 20 25 30
 His Leu Leu Ile Leu Thr Arg Asn Leu Glu Ile Ile Leu Leu Ile Leu
 35 40 45
 Leu Asp Ser Cys Leu His Ile Pro Met Tyr Phe Phe Leu Ser Asn Leu
 50 55 60
 Ser Leu Leu Gly Tyr Leu Thr Val Thr Pro Arg Val Thr Ala Ser Arg
 65 70 75 80
 Ala Gly Tyr Leu Glu Gly Arg Arg Leu Ser Ser Ser Tyr Asn Ala Cys
 85 90 95
 Ala Ala Gln Met Phe Phe Phe Val Ala Leu Ala Thr Val Glu Asn Met
 100 105 110
 Leu Leu Thr Ser Met Ala Tyr Asp His Tyr Ile Ala Val Cys Lys Pro
 115 120 125
 Leu His Tyr Thr Thr Thr Thr Ile Ala Ser Val Cys Ala His Leu Val
 130 135 140
 Ile Gly Ser Tyr Val Cys Gly Phe Leu Asn Ala Ser Leu Arg Ile Gly
 145 150 155 160
 Asp Ile Phe Ser Leu Ser Phe Cys Lys Ser Asn Leu Val His His Leu
 165 170 175
 Phe Cys Asp Val Pro Pro Val Met Ala Val Ser Cys Ser Gly Lys His
 180 185 190
 Ile Ser Lys Lys Ile Leu Val Phe Met Ser Ser Phe Asn Val Phe Leu
 195 200 205
 Ala Leu Leu Val Ile Leu Thr Ser Tyr Leu Phe Ile Phe Ile Thr Ile
 210 215 220
 Leu Lys Met His Ser Ala Gln Gly His Leu Lys Ala Leu Ser Thr Cys
 225 230 235 240
 Ala Ser His Leu Ile Ala Val Ser Ile Phe Tyr Gly Thr Thr Ile Phe
 245 250 255
 Met His Leu Gln Pro Ser Ser Ser His Ser Met Asp Thr Asp Glu Met
 260 265 270
 Ala Ser Leu Phe Tyr Ala Val Phe Ile Ser Met Leu Asn Leu Val Phe
 275 280 285
 Tyr Ser Leu Arg Ser Lys Glu Val Lys Asn Ala Phe Lys Lys Ala Val
 290 295 300
 Glu Lys Ala Lys Phe Phe Leu Glu Leu Xaa Phe
 305 310 315

<210> 1879
 <211> 314
 <212> PRT

<213> Unknown (H38g797 protein)

<220>

<223> Synthetic construct

<400> 1879

```

Met Asp Asn Ser Asn Trp Thr Ser Val Ser His Phe Val Leu Leu Gly
1      5      10      15
Ile Ser Thr His Pro Glu Glu Gln Ile Pro Leu Phe Leu Val Phe Ser
20      25      30
Leu Met Tyr Ala Ile Asn Ile Ser Gly Asn Leu Ala Ile Ile Thr Leu
35      40      45
Ile Leu Ser Ala Pro Arg Leu His Ile Pro Met Tyr Ile Phe Leu Ser
50      55      60
Asn Leu Ala Leu Thr Asp Ile Cys Phe Thr Ser Thr Thr Val Pro Lys
65      70      75      80
Met Leu Gln Ile Ile Phe Ser Pro Thr Lys Val Ile Ser Tyr Thr Gly
85      90      95
Cys Leu Ala Gln Thr Tyr Phe Phe Ile Cys Phe Ala Val Met Glu Asn
100     105     110
Phe Ile Leu Ala Val Met Ala Tyr Asp Arg Tyr Ile Ala Ile Cys His
115     120     125
Pro Phe His Tyr Thr Met Ile Leu Thr Arg Met Leu Cys Val Lys Met
130     135     140
Val Val Met Cys His Ala Leu Ser His Leu His Ala Met Leu His Thr
145     150     155     160
Phe Leu Met Gly Gln Leu Ile Phe Cys Ala Asp Asn Arg Ile Pro His
165     170     175
Phe Phe Cys Asp Leu Tyr Ala Leu Met Lys Ile Ser Cys Thr Ser Thr
180     185     190
Tyr Leu Asn Thr Leu Met Ile His Thr Glu Gly Ala Val Val Ile Ser
195     200     205
Gly Ala Leu Ala Phe Ile Thr Ala Ser Tyr Ala Cys Ile Ile Leu Val
210     215     220
Val Leu Arg Ile Pro Ser Ala Lys Gly Arg Trp Lys Thr Phe Ser Thr
225     230     235     240
Cys Gly Ser His Leu Thr Val Val Ala Ile Phe Tyr Gly Thr Leu Ser
245     250     255
Trp Val Tyr Phe Arg Pro Leu Ser Ser Tyr Ser Val Thr Lys Gly Arg
260     265     270
Ile Ile Thr Val Val Tyr Thr Val Val Thr Pro Met Leu Asn Pro Phe
275     280     285
Ile Tyr Ser Leu Arg Asn Gly Asp Val Lys Gly Gly Phe Met Lys Trp
290     295     300
Met Ser Arg Met Gln Thr Phe Phe Phe Arg
305     310

```

<210> 1880

<211> 316

<212> PRT

<213> Unknown (H38g798 protein)

<220>

<223> Synthetic construct

<400> 1880

```

Met Val Asn Gln Ser Ser Pro Met Gly Phe Leu Leu Leu Gly Phe Ser
1      5      10      15
Glu His Pro Ala Leu Glu Arg Thr Leu Phe Val Val Val Phe Thr Ser
20      25      30
Tyr Leu Leu Thr Leu Val Gly Asn Thr Leu Ile Ile Leu Leu Ser Val

```

```

      35              40              45
Leu Tyr Pro Arg Leu His Ser Pro Met Tyr Phe Phe Leu Ser Asp Leu
  50              55              60
Ser Phe Leu Asp Leu Cys Phe Thr Thr Ser Cys Val Pro Gln Met Leu
  65              70              75              80
Val Asn Leu Trp Gly Pro Lys Lys Thr Ile Ser Phe Leu Gly Cys Ser
      85              90              95
Val Gln Leu Phe Ile Phe Leu Ser Leu Gly Thr Thr Glu Cys Ile Leu
      100              105              110
Leu Thr Val Met Ala Phe Asp Arg Tyr Val Ala Val Cys Gln Pro Leu
      115              120              125
His Tyr Ala Thr Ile Ile His Pro Arg Leu Cys Trp Gln Leu Ala Ser
      130              135              140
Val Ala Trp Val Met Ser Leu Val Gln Ser Ile Val Gln Thr Pro Ser
      145              150              155              160
Thr Leu His Leu Pro Phe Cys Pro His Gln Gln Ile Asp Asp Phe Leu
      165              170              175
Cys Glu Val Pro Ser Leu Ile Arg Leu Ser Cys Gly Asp Thr Ser Tyr
      180              185              190
Asn Glu Ile Gln Leu Ala Val Ser Ser Val Ile Phe Val Val Val Pro
      195              200              205
Leu Ser Leu Ile Leu Ala Ser Tyr Gly Ala Thr Ala Gln Ala Val Leu
      210              215              220
Arg Ile Asn Ser Ala Thr Ala Trp Arg Lys Ala Phe Gly Thr Cys Ser
      225              230              235              240
Ser His Leu Thr Val Val Thr Leu Phe Tyr Ser Ser Val Ile Ala Val
      245              250              255
Tyr Leu Gln Pro Lys Asn Pro Tyr Ala Gln Gly Arg Gly Lys Phe Phe
      260              265              270
Gly Leu Phe Tyr Ala Val Gly Thr Pro Ser Leu Asn Pro Leu Val Tyr
      275              280              285
Thr Leu Arg Asn Lys Glu Ile Lys Arg Ala Leu Arg Arg Leu Leu Gly
      290              295              300
Lys Glu Arg Asp Ser Arg Glu Ser Trp Arg Ala Ala
      305              310              315

```

<210> 1881

<211> 324

<212> PRT

<213> Unknown (H38g799 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(324)

<223> Xaa = Any Amino Acid

<400> 1881

```

His Thr Glu Pro Arg Asn Leu Thr Gly Val Xaa Glu Phe Leu Leu Leu
  1              5              10              15
Gly Leu Ser Glu Asp Pro Glu Leu Gln Pro Val Leu Ala Leu Leu Ser
      20              25              30
Leu Ser Leu Ser Met Tyr Met Val Thr Val Leu Arg Asn Leu Leu Ser
      35              40              45
Ile Leu Ala Val Ser Ser Asp Ser Pro Leu His Thr Pro Met Cys Phe
      50              55              60
Phe Leu Ser Lys Leu Cys Xaa Ala Asp Ile Gly Phe Thr Leu Ala Met
      65              70              75              80
Val Pro Lys Met Ile Val Asn Met Gln Ser His Ser Arg Val Ile Ser
      85              90              95

```

Tyr Glu Gly Cys Leu Thr Arg Met Ser Phe Phe Val Leu Phe Ala Cys
 100 105 110
 Met Glu Asp Met Leu Leu Thr Val Met Ala Tyr Asp Cys Phe Val Ala
 115 120 125
 Ile Cys Arg Pro Leu His Tyr Pro Val Ile Val Asn Pro His Leu Cys
 130 135 140
 Val Phe Phe Val Leu Val Ser Phe Phe Leu Ser Pro Leu Asp Ser Gln
 145 150 155 160
 Leu His Ser Trp Ile Val Leu Leu Phe Thr Ile Ile Lys Asn Val Glu
 165 170 175
 Ile Thr Asn Phe Val Cys Glu Pro Ser Gln Leu Leu Asn Leu Ala Cys
 180 185 190
 Ser Asp Ser Val Ile Asn Asn Ile Phe Ile Tyr Phe Asp Ser Thr Met
 195 200 205
 Phe Gly Phe Leu Pro Ile Ser Gly Ile Leu Leu Ser Tyr Tyr Lys Ile
 210 215 220
 Val Pro Ser Ile Leu Arg Met Ser Ser Ser Asp Gly Lys Tyr Lys Gly
 225 230 235 240
 Phe Ser Thr Cys Gly Ser Tyr Leu Ala Val Val Cys Xaa Phe Asp Gly
 245 250 255
 Thr Gly Ile Gly Met Tyr Leu Thr Ser Ala Val Ser Pro Pro Arg
 260 265 270
 Asn Gly Val Val Ala Ser Val Met Tyr Ala Val Val Thr Pro Met Leu
 275 280 285
 Asn Leu Phe Ile Tyr Ser Leu Gly Lys Arg Asp Ile Gln Ser Val Leu
 290 295 300
 Arg Arg Leu Cys Ser Arg Thr Val Glu Ser Pro Xaa Tyr Val Pro Ser
 305 310 315 320
 Phe Phe Leu Cys

<210> 1882

<211> 158

<212> PRT

<213> Unknown (H38g800 protein)

<220>

<223> Synthetic construct

<400> 1882

Met Glu Pro Glu Asn Gly Thr Arg Ile Leu Gly Phe Leu Leu Leu Gly
 1 5 10 15
 Leu Ser Glu Glu Pro Glu Leu Gln Pro Val Met Phe Gly Leu Phe Leu
 20 25 30
 Ser Met Tyr Leu Thr Thr Val Phe Gly Asn Leu Leu Ile Ile Leu Ala
 35 40 45
 Ile Cys Ser Gly Ser His Leu His Thr Pro Met Tyr Phe Phe Leu Ser
 50 55 60
 Asn Leu Ser Phe Val Asp Ile Cys Val Thr Ser Thr Thr Val Pro Lys
 65 70 75 80
 Thr Leu Ser Asn Ile Arg Thr Gln Ser Lys Val Ile Thr Tyr Ala Gly
 85 90 95
 Cys Ile Thr Gln Met Tyr Phe Phe Val Leu Phe Ile Val Leu Asp Ser
 100 105 110
 Leu Leu Leu Thr Val Met Ala Tyr Asp Gln Phe Val Ala Ile Cys His
 115 120 125
 Pro Leu His Tyr Thr Val Ile Val Asn Pro Arg Leu Cys Gly Leu Leu
 130 135 140
 Val Leu Ala Ser Trp Ile Met Ser Ala Leu Asn Ser Leu Ile
 145 150 155

<210> 1883
 <211> 318
 <212> PRT
 <213> Unknown (H38g801 protein)

<220>
 <223> Synthetic construct

<400> 1883

```

Met Met Ser Phe Ala Pro Asn Ala Ser His Ser Pro Val Phe Leu Leu
 1           5           10           15
Leu Gly Phe Ser Arg Ala Asn Ile Ser Tyr Thr Leu Leu Phe Phe Leu
           20           25           30
Phe Leu Ala Ile Tyr Leu Thr Thr Ile Leu Gly Asn Val Thr Leu Val
           35           40           45
Leu Leu Ile Ser Trp Asp Ser Arg Leu His Ser Pro Met Tyr Tyr Leu
           50           55           60
Leu Arg Gly Leu Ser Val Ile Asp Met Gly Leu Ser Thr Val Thr Leu
           65           70           75           80
Pro Gln Leu Leu Ala His Leu Val Ser His Tyr Pro Thr Ile Pro Ala
           85           90           95
Ala Arg Cys Leu Ala Gln Phe Phe Phe Tyr Ala Phe Gly Val Thr
           100          105          110
Asp Thr Leu Val Ile Ala Val Met Ala Leu Asp Arg Tyr Val Ala Ile
           115          120          125
Cys Asp Pro Leu His Tyr Ala Leu Val Met Asn His Gln Arg Cys Ala
           130          135          140
Cys Leu Leu Ala Leu Ser Trp Val Val Ser Ile Leu His Thr Met Leu
           145          150          155          160
Arg Val Gly Leu Val Leu Pro Leu Cys Trp Thr Gly Asp Ala Gly Gly
           165          170          175
Asn Val Asn Leu Pro His Phe Phe Cys Asp His Arg Pro Leu Leu Arg
           180          185          190
Ala Ser Cys Ser Asp Ile His Ser Asn Glu Leu Ala Ile Phe Phe Glu
           195          200          205
Gly Gly Phe Leu Met Leu Gly Pro Cys Ala Leu Ile Val Leu Ser Tyr
           210          215          220
Val Arg Ile Gly Ala Ala Ile Leu Arg Leu Pro Ser Ala Ala Gly Arg
           225          230          235          240
Arg Arg Ala Val Ser Thr Cys Gly Ser His Leu Thr Met Val Gly Phe
           245          250          255
Leu Tyr Gly Thr Ile Ile Cys Val Tyr Phe Gln Pro Pro Phe Gln Asn
           260          265          270
Ser Gln Tyr Gln Asp Met Val Ala Ser Val Met Tyr Thr Ala Ile Thr
           275          280          285
Pro Leu Ala Asn Pro Phe Val Tyr Ser Leu His Asn Lys Asp Val Lys
           290          295          300
Gly Ala Leu Cys Arg Leu Leu Glu Trp Val Lys Val Asp Pro
           305          310          315

```

<210> 1884
 <211> 307
 <212> PRT
 <213> Unknown (H38g802 protein)

<220>
 <223> Synthetic construct

<400> 1884

```

Met Leu Asn Thr Thr Ser Val Thr Glu Phe Leu Leu Leu Gly Val Thr
 1           5           10           15

```

Asp Ile Gln Glu Leu Gln Pro Phe Leu Phe Val Val Phe Leu Thr Ile
 20 25 30
 Tyr Phe Ile Ser Val Thr Gly Asn Gly Ala Val Leu Met Ile Val Ile
 35 40 45
 Ser Asp Pro Arg Leu His Ser Leu Met Tyr Phe Phe Leu Gly Asn Leu
 50 55 60
 Ser Tyr Leu Asp Ile Cys Tyr Ser Thr Val Thr Leu Pro Lys Met Leu
 65 70 75 80
 Gln Asn Phe Leu Ser Thr His Lys Ala Ile Ser Phe Leu Gly Cys Ile
 85 90 95
 Ser Gln Leu His Phe Phe His Phe Leu Gly Ser Thr Glu Ser Met Leu
 100 105 110
 Phe Ala Val Met Ala Phe Asp Leu Ser Val Ala Ile Cys Lys Pro Leu
 115 120 125
 Arg Tyr Thr Val Ile Met Asn Pro Gln Leu Cys Thr Gln Met Ala Ile
 130 135 140
 Thr Ile Trp Val Ile Gly Phe Phe His Ala Leu Leu His Ser Val Met
 145 150 155 160
 Thr Ser Arg Leu Asn Phe Cys Gly Ser Asn Arg Ile His His Phe Leu
 165 170 175
 Cys Asp Ile Lys Pro Leu Leu Lys Leu Ala Cys Gly Asn Thr Glu Leu
 180 185 190
 Asn Gln Trp Leu Leu Ser Thr Val Thr Gly Thr Ile Ala Met Gly Pro
 195 200 205
 Phe Phe Leu Thr Leu Leu Ser Tyr Phe Tyr Ile Ile Thr Tyr Leu Phe
 210 215 220
 Phe Lys Thr Arg Ser Cys Ser Met Leu Cys Lys Ala Leu Ser Thr Cys
 225 230 235 240
 Ala Ser His Phe Met Val Val Ile Leu Phe Tyr Ala Pro Val Leu Phe
 245 250 255
 Thr Tyr Ile His Pro Ala Leu Glu Ser Phe Met Asp Gln Asp Arg Ile
 260 265 270
 Val Ala Ile Met Tyr Thr Val Val Thr Pro Val Leu Asn Pro Leu Ile
 275 280 285
 Tyr Thr Leu Arg Asn Lys Glu Val Lys Gly Ala Leu Gly Arg Val Ile
 290 295 300
 Arg Arg Leu
 305

<210> 1885

<211> 320

<212> PRT

<213> Unknown (H38g803 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(320)

<223> Xaa = Any Amino Acid

<400> 1885

Gln Pro Arg Asn Leu Thr Asp Val Xaa Glu Phe Leu Leu Met Gly Leu
 1 5 10 15
 Ser Glu Asp Pro Glu Leu Gln Pro Val Leu Ala Gly Leu Ser Leu Ser
 20 25 30
 Met Tyr Leu Val Thr Val Leu Arg Asn Leu Leu Ser Ile Leu Ala Val
 35 40 45
 Ser Ser Asp Ser His Leu His Thr Pro Met Tyr Phe Phe Leu Ser Asn
 50 55 60
 Leu Cys Trp Ala Asp Ile Gly Phe Thr Ser Ala Thr Val Pro Lys Ile

| | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------|
| 65 | | | | | 70 | | | | | 75 | | | | 80 |
| Ile | Val | Asp | Met | Gln | Ser | His | Ser | Arg | Val | Ile | Ser | Tyr | Val | Gly Cys |
| | | | | 85 | | | | | 90 | | | | | 95 |
| Leu | Thr | Arg | Met | Ser | Phe | Leu | Val | Leu | Phe | Ala | Cys | Ile | Glu | Asp Met |
| | | | 100 | | | | | 105 | | | | | 110 | |
| Leu | Leu | Thr | Val | Met | Ala | Tyr | Asp | Cys | Phe | Val | Ala | Ile | Cys | Arg Pro |
| | | 115 | | | | | 120 | | | | | 125 | | |
| Leu | His | Tyr | Pro | Val | Ile | Val | Asn | Ala | His | Leu | Arg | Val | Phe | Leu Val |
| | 130 | | | | | 135 | | | | | 140 | | | |
| Leu | Val | Ser | Phe | Phe | Leu | Ser | Leu | Leu | Asp | Ser | Gln | Leu | His | Ser Xaa |
| 145 | | | | | 150 | | | | 155 | | | | | 160 |
| Ile | Val | Leu | Gln | Phe | Thr | Phe | Phe | Lys | Asn | Val | Glu | Ile | Ser | Asn Phe |
| | | | 165 | | | | | 170 | | | | | | 175 |
| Val | Cys | Glu | Pro | Ser | Gln | Leu | Leu | Lys | Leu | Ala | Cys | Ser | Asp | Ser Ile |
| | | | 180 | | | | | 185 | | | | | 190 | |
| Ile | Asn | Ser | Ile | Phe | Ile | Tyr | Phe | Asp | Ser | Thr | Met | Phe | Gly | Phe Leu |
| | | 195 | | | | | 200 | | | | | 205 | | |
| Pro | Ile | Ser | Gly | Ile | Leu | Leu | Ser | Tyr | Cys | Lys | Ile | Val | Pro | Ser Ile |
| | 210 | | | | | 215 | | | | | 220 | | | |
| Leu | Arg | Ile | Ser | Thr | Ser | Asp | Gly | Lys | Tyr | Lys | Ala | Phe | Ser | Thr Cys |
| 225 | | | | | 230 | | | | | 235 | | | | 240 |
| Gly | Ser | His | Leu | Ala | Leu | Val | Cys | Leu | Phe | Tyr | Gly | Ala | Gly | Ile Gly |
| | | | 245 | | | | | 250 | | | | | | 255 |
| Val | Tyr | Leu | Thr | Ser | Ala | Val | Ser | Pro | Pro | Pro | Arg | Asn | Gly | Val Val |
| | | 260 | | | | | 265 | | | | | 270 | | |
| Val | Ser | Val | Met | Tyr | Thr | Val | Val | Thr | Pro | Met | Leu | Asn | Pro | Phe Ile |
| | | 275 | | | | | 280 | | | | | 285 | | |
| Tyr | Ser | Leu | Arg | Asn | Arg | Asp | Ile | Gln | Ser | Thr | Leu | Arg | Arg | Leu Leu |
| | 290 | | | | | 295 | | | | | 300 | | | |
| Ser | Arg | Thr | Val | Glu | Ser | Pro | Xaa | Ser | Val | Pro | Ser | Phe | Phe | Leu Cys |
| 305 | | | | | 310 | | | | | 315 | | | | 320 |

<210> 1886

<211> 328

<212> PRT

<213> Unknown (H38g804 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(328)

<223> Xaa = Any Amino Acid

<400> 1886

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Ala | Pro | Gly | Asn | Gly | Ser | Phe | Val | Thr | Glu | Phe | Ile | Leu | Ala | Gly |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |
| Leu | Thr | His | Gln | Pro | Asp | Leu | Gln | Ser | Pro | Leu | Phe | Phe | Leu | Phe | Leu |
| | | | 20 | | | | 25 | | | | | | 30 | | |
| Val | Ile | Tyr | Val | Val | Thr | Leu | Leu | Gly | Asn | Leu | Gly | Leu | Val | Thr | Leu |
| | 35 | | | | | 40 | | | | | 45 | | | | |
| Ile | Gly | Leu | Asn | Ser | His | Leu | His | Thr | Pro | Met | Tyr | Phe | Phe | Leu | Phe |
| | 50 | | | | | 55 | | | | | 60 | | | | |
| Asn | Leu | Ser | Phe | Ile | Asp | Leu | Cys | Tyr | Ser | Ser | Val | Phe | Ile | Pro | Lys |
| 65 | | | | | 70 | | | | 75 | | | | | 80 | |
| Met | Leu | Met | Asn | Phe | Ile | Ser | Glu | Lys | Asn | Ile | Met | Ser | Phe | Lys | Gly |
| | | | | 85 | | | | | 90 | | | | | 95 | |
| Cys | Met | Thr | Gln | Leu | Ser | Phe | Tyr | Xaa | Phe | Phe | Val | Val | Ile | Ser | Glu |
| | | 100 | | | | | | 105 | | | | | 110 | | |
| Gly | Tyr | Val | Leu | Thr | Ser | Met | Ala | Tyr | Asp | Arg | Val | Ala | Ile | Cys | Thr |
| | 115 | | | | | | 120 | | | | | 125 | | | |

```

Pro Leu Leu Tyr His Ile Ala Met Ser Pro Thr Val Cys Ser Ser Leu
 130                135                140
Met Phe Gly Ser Tyr Leu Met Pro Phe Ser Gly Ala Met Ala His Thr
145                150                155                160
Gly Cys Met Leu Arg Leu Thr Phe Cys Asp Ala Asn Thr Ile Asp His
 165                170                175
Tyr Phe Cys Asp Ile Leu Pro Leu Leu Gln Leu Ser Cys Thr Ser Thr
 180                185                190
Tyr Ile Asn Glu Leu Val Val Phe Thr Val Val Gly Ile Asn Ile Ile
 195                200                205
Val Pro Thr Val Thr Ile Phe Ile Ser Tyr Gly Phe Ile Leu Ser Ser
 210                215                220
Ile Leu His Ile Ser Ser Lys Glu Gly Arg Ser Lys Ala Phe Ser Thr
225                230                235                240
Cys Ser Ser His Ile Ala Val Ser Leu Phe Phe Gly Ser Gly Ala
 245                250                255
Phe Met Tyr Leu Asn Pro Ser Ser Ala Gly Ser Met Asp Lys Arg Lys
260                265                270
Leu Ser Ser Val Phe Tyr Thr Asn Val Val Pro Met Leu Asn Pro Leu
275                280                285
Ile Tyr Ser Leu Arg Asn Lys Asp Val Lys Phe Ala Leu Arg Lys Ala
290                295                300
Leu Ser Ser Arg Lys Leu Xaa Xaa Val Ile Val Cys Val Cys Val Tyr
305                310                315                320
Ser His Lys Thr Gly Ile Phe Cys
 325

```

<210> 1887

<211> 310

<212> PRT

<213> Unknown (H38g805 protein)

<220>

<223> Synthetic construct

<400> 1887

```

Met Gly Arg Asn Asn Leu Thr Arg Pro Ser Glu Phe Ile Leu Leu Gly
 1                5                10                15
Leu Ser Ser Arg Pro Glu Asp Gln Lys Pro Leu Phe Ala Val Phe Leu
 20                25                30
Pro Ile Tyr Leu Ile Thr Val Ile Gly Asn Leu Leu Ile Ile Leu Ala
 35                40                45
Ile Arg Ser Asp Thr Arg Leu Gln Thr Pro Met Tyr Phe Phe Leu Ser
 50                55                60
Ile Leu Ser Phe Val Asp Ile Cys Tyr Val Thr Val Ile Ile Pro Lys
65                70                75                80
Met Leu Val Asn Phe Leu Ser Glu Thr Lys Thr Ile Ser Tyr Ser Glu
 85                90                95
Cys Leu Thr Gln Met Tyr Phe Phe Leu Ala Phe Gly Asn Thr Asp Ser
100                105                110
Tyr Leu Leu Ala Ala Met Ala Ile Asp Arg Tyr Val Ala Ile Cys Asn
115                120                125
Pro Phe His Tyr Ile Thr Ile Met Ser His Arg Cys Cys Val Leu Leu
130                135                140
Leu Val Leu Ser Phe Cys Ile Pro His Phe His Ser Leu Leu His Ile
145                150                155                160
Leu Leu Thr Asn Gln Leu Ile Phe Cys Ala Ser Asn Val Ile His His
165                170                175
Phe Phe Cys Asp Asp Gln Pro Val Leu Lys Leu Ser Cys Ser Ser His
180                185                190
Phe Val Lys Glu Ile Thr Val Met Thr Glu Gly Leu Ala Val Ile Met

```

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | 195 | | | | | 200 | | | | 205 | | | | | |
| Thr | Pro | Phe | Ser | Cys | Ile | Ile | Ile | Ser | Tyr | Leu | Arg | Ile | Leu | Ile | Thr |
| | 210 | | | | | 215 | | | | | 220 | | | | |
| Val | Leu | Lys | Ile | Pro | Ser | Ala | Ala | Gly | Lys | Arg | Lys | Ala | Phe | Ser | Thr |
| 225 | | | | | 230 | | | | | 235 | | | | | 240 |
| Cys | Gly | Ser | His | Leu | Thr | Val | Val | Thr | Leu | Phe | Tyr | Gly | Ser | Ile | Ser |
| | | | | 245 | | | | | 250 | | | | | 255 | |
| Tyr | Leu | Tyr | Phe | Gln | Pro | Leu | Ser | Asn | Tyr | Thr | Val | Lys | Asp | Gln | Ile |
| | | | 260 | | | | | 265 | | | | | 270 | | |
| Ala | Thr | Ile | Ile | Tyr | Thr | Val | Leu | Thr | Pro | Met | Leu | Asn | Pro | Phe | Ile |
| | 275 | | | | | | 280 | | | | | 285 | | | |
| Tyr | Ser | Leu | Arg | Asn | Lys | Asp | Met | Lys | Gln | Gly | Leu | Ala | Lys | Leu | Met |
| | 290 | | | | | 295 | | | | | 300 | | | | |
| His | Arg | Met | Lys | Cys | Gln | | | | | | | | | | |
| 305 | | | | | 310 | | | | | | | | | | |

<210> 1888

<211> 315

<212> PRT

<213> Unknown (H38g806 protein)

<220>

<223> Synthetic construct

<400> 1888

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Glu | Ile | Val | Ser | Thr | Gly | Asn | Glu | Thr | Ile | Thr | Glu | Phe | Val | Leu |
| 1 | | | | 5 | | | | 10 | | | | | 15 | | |
| Leu | Gly | Phe | Tyr | Asp | Ile | Pro | Glu | Leu | His | Phe | Leu | Phe | Phe | Ile | Val |
| | | | 20 | | | | | 25 | | | | | 30 | | |
| Phe | Thr | Ala | Val | Tyr | Val | Phe | Ile | Ile | Gly | Asn | Met | Leu | Ile | Ile | |
| | | 35 | | | | | 40 | | | | 45 | | | | |
| Val | Ala | Val | Val | Ser | Ser | Gln | Arg | Leu | His | Lys | Pro | Met | Tyr | Ile | Phe |
| | 50 | | | | | 55 | | | | | 60 | | | | |
| Leu | Ala | Asn | Leu | Ser | Phe | Leu | Asp | Ile | Leu | Tyr | Thr | Ser | Ala | Val | Met |
| 65 | | | | | 70 | | | | 75 | | | | | 80 | |
| Pro | Lys | Met | Leu | Glu | Gly | Phe | Leu | Gln | Glu | Ala | Thr | Ile | Ser | Val | Ala |
| | | | 85 | | | | | 90 | | | | | 95 | | |
| Gly | Cys | Leu | Leu | Gln | Phe | Phe | Ile | Phe | Gly | Ser | Leu | Ala | Thr | Ala | Glu |
| | | | 100 | | | | | 105 | | | | | 110 | | |
| Cys | Leu | Leu | Leu | Ala | Val | Met | Ala | Tyr | Asp | Arg | Tyr | Leu | Ala | Ile | Cys |
| | | | 115 | | | | 120 | | | | | 125 | | | |
| Tyr | Pro | Leu | His | Tyr | Pro | Leu | Leu | Met | Gly | Pro | Arg | Arg | Tyr | Met | Gly |
| | 130 | | | | | 135 | | | | | 140 | | | | |
| Leu | Val | Val | Thr | Thr | Trp | Leu | Ser | Gly | Phe | Val | Val | Asp | Gly | Leu | Val |
| 145 | | | | | 150 | | | | | 155 | | | | | 160 |
| Val | Ala | Leu | Val | Ala | Gln | Leu | Arg | Phe | Cys | Gly | Pro | Asn | His | Ile | Asp |
| | | | | 165 | | | | | 170 | | | | | 175 | |
| Gln | Phe | Tyr | Cys | Asp | Phe | Met | Leu | Phe | Val | Gly | Leu | Ala | Cys | Ser | Asp |
| | | | 180 | | | | | 185 | | | | | 190 | | |
| Pro | Arg | Val | Ala | Gln | Val | Thr | Thr | Leu | Ile | Leu | Ser | Val | Phe | Cys | Leu |
| | 195 | | | | | | 200 | | | | | 205 | | | |
| Thr | Ile | Pro | Phe | Gly | Leu | Ile | Leu | Thr | Ser | Tyr | Ala | Arg | Ile | Val | Val |
| | 210 | | | | | 215 | | | | | | 220 | | | |
| Ala | Val | Leu | Arg | Val | Pro | Ala | Gly | Ala | Ser | Arg | Arg | Arg | Ala | Phe | Ser |
| 225 | | | | | 230 | | | | | 235 | | | | | 240 |
| Thr | Cys | Ser | Ser | His | Leu | Ala | Val | Val | Thr | Thr | Phe | Tyr | Gly | Thr | Leu |
| | | | | 245 | | | | | 250 | | | | | 255 | |
| Met | Ile | Phe | Tyr | Val | Ala | Pro | Ser | Ala | Val | His | Ser | Gln | Leu | Leu | Ser |
| | | | 260 | | | | | 265 | | | | | 270 | | |
| Lys | Val | Phe | Ser | Leu | Leu | Tyr | Thr | Val | Val | Thr | Pro | Leu | Phe | Asn | Pro |
| | 275 | | | | | | 280 | | | | | | 285 | | |

Val Ile Tyr Thr Met Arg Asn Lys Glu Val His Gln Ala Leu Arg Lys
 290 295 300
 Ile Leu Cys Ile Lys Gln Thr Glu Thr Leu Asp
 305 310 315

<210> 1889

<211> 188

<212> PRT

<213> Unknown (H38g807 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(188)

<223> Xaa = Any Amino Acid

<400> 1889

His Trp Lys Ile Leu Arg Arg Asn Ser Lys Met Ile His Glu Ile Ile
 1 5 10 15
 Xaa Thr Leu Cys Gln Ile Leu Tyr Ser Glu Asp Lys Thr Cys Tyr Ile
 20 25 30
 Gln Ile Gln Ser Leu Phe Cys Thr Asp Leu Glu Ile Pro Asn Phe Phe
 35 40 45
 Cys Glu Leu Asn Xaa Val Val His Leu Ala Cys Ser Asp Thr Phe Leu
 50 55 60
 Lys Asp Ile Val Arg Tyr Cys Thr Thr Met Leu Leu Ser Gly Gly Pro
 65 70 75 80
 Ile Ala Gly Ile Phe Tyr Ser Phe Ser Lys Ile Ile Ser Ser Ile Cys
 85 90 95
 Ala Ile Pro Ser Ala Gln Gly Lys His Lys Ala Phe Pro Thr Cys Val
 100 105 110
 Ser His Leu Ser Asn Met Ser Leu Phe Tyr Cys Arg Ser Thr Gly Leu
 115 120 125
 Tyr Leu Ser Phe Ala Ala Thr His Asn Ser Cys Ser Asn Ala Thr Ala
 130 135 140
 Ser Val Arg His Thr Val Val Lys Pro Leu Leu Asn Val Phe Ile Leu
 145 150 155 160
 Lys Ser Ser Asn Lys Asp Ile Lys Xaa Ala Leu Lys Val Phe Phe Arg
 165 170 175
 Gly Lys Gln Trp Lys His His Phe Ser Lys Ser Ala
 180 185

<210> 1890

<211> 313

<212> PRT

<213> Unknown (H38g808 protein)

<220>

<223> Synthetic construct

<400> 1890

Met Glu Lys Arg Asn Leu Thr Val Val Arg Glu Phe Val Leu Leu Gly
 1 5 10 15
 Leu Pro Ser Ser Ala Glu Gln Gln His Leu Leu Ser Val Leu Phe Leu
 20 25 30
 Cys Met Tyr Leu Ala Thr Thr Leu Gly Asn Met Leu Ile Ile Ala Thr
 35 40 45
 Ile Gly Phe Asp Ser His Leu His Ser Pro Met Tyr Phe Phe Leu Ser
 50 55 60
 Asn Leu Ala Phe Val Asp Ile Cys Phe Thr Ser Thr Thr Val Pro Gln

| | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 65 | | | | | 70 | | | | | 75 | | | | 80 |
| Met | Val | Val | Asn | Ile | Leu | Thr | Gly | Thr | Lys | Thr | Ile | Ser | Phe | Ala |
| | | | | 85 | | | | | 90 | | | | | 95 |
| Cys | Leu | Thr | Gln | Leu | Phe | Phe | Phe | Val | Ser | Phe | Val | Asn | Met | Asp |
| | | | 100 | | | | | 105 | | | | | 110 | |
| Leu | Leu | Leu | Cys | Val | Met | Ala | Tyr | Asp | Arg | Tyr | Val | Ala | Ile | Cys |
| | | 115 | | | | | 120 | | | | | 125 | | |
| Pro | Leu | His | Tyr | Thr | Ala | Arg | Met | Asn | Leu | Cys | Leu | Cys | Val | Gln |
| | 130 | | | | | 135 | | | | | 140 | | | |
| Val | Ala | Gly | Leu | Trp | Leu | Val | Thr | Tyr | Leu | His | Ala | Leu | Leu | His |
| 145 | | | | | 150 | | | | | 155 | | | | 160 |
| Val | Leu | Ile | Ala | Gln | Leu | Ser | Phe | Cys | Ala | Ser | Asn | Ile | Ile | His |
| | | | 165 | | | | | 170 | | | | | 175 | |
| Phe | Leu | Cys | Asp | Leu | Asn | Pro | Leu | Leu | Gln | Leu | Ser | Cys | Ser | Asp |
| | | 180 | | | | | | 185 | | | | 190 | | |
| Ser | Phe | Asn | Val | Met | Ile | Ile | Phe | Ala | Val | Gly | Asp | Leu | Leu | Ala |
| | 195 | | | | | 200 | | | | | 205 | | | |
| Thr | Pro | Leu | Val | Cys | Ile | Leu | Val | Ser | Tyr | Gly | Leu | Ile | Phe | Ser |
| | 210 | | | | 215 | | | | | | 220 | | | Thr |
| Val | Leu | Lys | Ile | Thr | Ser | Thr | Gln | Gly | Lys | Gln | Arg | Ala | Val | Ser |
| 225 | | | | 230 | | | | | 235 | | | | | 240 |
| Cys | Ser | Cys | His | Leu | Ser | Val | Val | Val | Leu | Phe | Tyr | Gly | Thr | Ala |
| | | | 245 | | | | | | 250 | | | | 255 | |
| Ala | Val | Tyr | Phe | Ser | Pro | Ser | Ser | Pro | His | Met | Pro | Glu | Ser | Asp |
| | | 260 | | | | | 265 | | | | | 270 | | Thr |
| Leu | Ser | Thr | Ile | Met | Tyr | Ser | Met | Val | Ala | Pro | Met | Leu | Asn | Pro |
| | 275 | | | | | 280 | | | | | 285 | | | Phe |
| Ile | Tyr | Thr | Leu | Arg | Asn | Arg | Asp | Met | Lys | Arg | Gly | Leu | Gln | Lys |
| | 290 | | | | 295 | | | | | | 300 | | | Met |
| Leu | Leu | Lys | Cys | Thr | Val | Phe | Gln | Gln | | | | | | |
| 305 | | | | 310 | | | | | | | | | | |

<210> 1891

<211> 312

<212> PRT

<213> Unknown (H38g809 protein)

<220>

<223> Synthetic construct

<400> 1891

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Asp | Gly | Gly | Asn | Gln | Ser | Glu | Gly | Ser | Glu | Phe | Leu | Leu | Leu | Gly |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |
| Met | Ser | Glu | Ser | Pro | Glu | Gln | Gln | Gln | Ile | Leu | Phe | Trp | Met | Phe | Leu |
| | | 20 | | | | | 25 | | | | | 30 | | | |
| Ser | Met | Tyr | Leu | Val | Thr | Val | Val | Gly | Asn | Val | Leu | Ile | Ile | Leu | Ala |
| | 35 | | | | | 40 | | | | | 45 | | | | |
| Ile | Ser | Ser | Asp | Ser | Arg | Leu | His | Thr | Pro | Val | Tyr | Phe | Phe | Leu | Ala |
| | 50 | | | 55 | | | | | 60 | | | | | | |
| Asn | Leu | Ser | Phe | Thr | Asp | Leu | Phe | Phe | Val | Thr | Asn | Thr | Ile | Pro | Lys |
| 65 | | | | 70 | | | | | 75 | | | | | 80 | |
| Met | Leu | Val | Asn | Leu | Gln | Ser | His | Asn | Lys | Ala | Ile | Ser | Tyr | Ala | Gly |
| | | | 85 | | | | | 90 | | | | | 95 | | |
| Cys | Leu | Thr | Gln | Leu | Tyr | Phe | Leu | Val | Ser | Leu | Val | Ala | Leu | Asp | Asn |
| | | 100 | | | | | 105 | | | | | 110 | | | |
| Leu | Ile | Leu | Ala | Val | Met | Ala | Tyr | Asp | Arg | Tyr | Val | Ala | Ile | Cys | Cys |
| | 115 | | | | | 120 | | | | | 125 | | | | |
| Pro | Leu | His | Tyr | Thr | Thr | Ala | Met | Ser | Pro | Lys | Leu | Cys | Ile | Leu | Leu |
| | 130 | | | | 135 | | | | | 140 | | | | | |
| Leu | Ser | Leu | Cys | Trp | Val | Leu | Ser | Val | Leu | Tyr | Gly | Leu | Ile | His | Thr |
| 145 | | | | 150 | | | | | 155 | | | | | 160 | |

Leu Leu Met Thr Arg Val Thr Phe Cys Gly Ser Arg Lys Ile His Tyr
 165 170 175
 Ile Phe Cys Glu Met Tyr Val Leu Leu Arg Met Ala Cys Ser Asn Ile
 180 185 190
 Gln Ile Asn His Thr Val Leu Ile Ala Thr Gly Cys Phe Ile Phe Leu
 195 200 205
 Ile Pro Phe Gly Phe Val Ile Ile Ser Tyr Val Leu Ile Ile Arg Ala
 210 215 220
 Ile Leu Arg Ile Pro Ser Val Ser Lys Lys Tyr Lys Ala Phe Ser Thr
 225 230 235 240
 Cys Ala Ser His Leu Gly Ala Val Ser Leu Phe Tyr Gly Thr Leu Cys
 245 250 255
 Met Val Tyr Leu Lys Pro Leu His Thr Tyr Ser Val Lys Asp Ser Val
 260 265 270
 Ala Thr Val Met Tyr Ala Val Val Thr Pro Met Met Asn Pro Phe Ile
 275 280 285
 Tyr Ser Leu Arg Asn Lys Asp Met His Gly Ala Leu Gly Arg Leu Leu
 290 295 300
 Asp Lys His Phe Lys Arg Leu Thr
 305 310

<210> 1892

<211> 317

<212> PRT

<213> Unknown (H38g810 protein)

<220>

<223> Synthetic construct

<400> 1892

Met Gly Met Ser Asn Leu Thr Arg Leu Ser Glu Phe Ile Leu Leu Gly
 1 5 10 15
 Leu Ser Ser Arg Ser Glu Asp Gln Arg Pro Leu Phe Ala Leu Phe Leu
 20 25 30
 Ile Ile Tyr Leu Val Thr Leu Met Gly Asn Leu Leu Ile Ile Leu Ala
 35 40 45
 Ile His Ser Asp Pro Arg Leu Gln Asn Pro Met Tyr Phe Phe Leu Ser
 50 55 60
 Ile Leu Ser Phe Ala Asp Ile Cys Tyr Thr Thr Val Ile Val Pro Lys
 65 70 75 80
 Met Leu Val Asn Phe Leu Ser Glu Lys Lys Thr Ile Ser Tyr Ala Glu
 85 90 95
 Cys Leu Ala Gln Met Tyr Phe Phe Leu Val Phe Gly Asn Ile Asp Ser
 100 105 110
 Tyr Leu Leu Ala Ala Met Ala Ile Asn Arg Cys Val Ala Ile Cys Asn
 115 120 125
 Pro Phe His Tyr Val Thr Val Met Asn Arg Arg Cys Cys Val Leu Leu
 130 135 140
 Leu Ala Phe Pro Ile Thr Phe Ser Tyr Phe His Ser Leu Leu His Val
 145 150 155 160
 Leu Leu Val Asn Arg Leu Thr Phe Cys Thr Ser Asn Val Ile His His
 165 170 175
 Phe Phe Cys Asp Val Asn Pro Val Leu Lys Leu Ser Cys Ser Ser Thr
 180 185 190
 Phe Val Asn Glu Ile Val Ala Met Thr Glu Gly Leu Ala Ser Val Met
 195 200 205
 Ala Pro Phe Val Cys Ile Ile Ile Ser Tyr Leu Arg Ile Leu Ile Ala
 210 215 220
 Val Leu Lys Ile Pro Ser Ala Ala Gly Lys His Lys Ala Phe Ser Thr
 225 230 235 240
 Cys Ser Ser His Leu Thr Val Val Ile Leu Phe Tyr Gly Ser Ile Ser

| | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | | | 245 | | | | | 250 | | | | 255 | |
| Tyr | Val | Tyr | Leu | Gln | Pro | Leu | Ser | Ser | Tyr | Thr | Val | Lys | Asp |
| | | | 260 | | | | | 265 | | | | 270 | Arg |
| Ala | Thr | Ile | Asn | Tyr | Thr | Val | Leu | Thr | Ser | Val | Leu | Asn | Pro |
| | | 275 | | | | | 280 | | | | 285 | Phe | Ile |
| Tyr | Ser | Leu | Arg | Asn | Lys | Asp | Met | Lys | Arg | Gly | Leu | Gln | Lys |
| | 290 | | | | | 295 | | | | | 300 | Leu | Ile |
| Asn | Lys | Ile | Lys | Ser | Gln | Met | Ser | Arg | Phe | Ser | Thr | Lys | |
| 305 | | | | | 310 | | | | | 315 | | | |

<210> 1893

<211> 309

<212> PRT

<213> Unknown (H38g811 protein)

<220>

<223> Synthetic construct

<400> 1893

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Leu | Asn | Thr | Thr | Ser | Val | Thr | Glu | Phe | Leu | Leu | Leu | Gly | Val | Thr |
| 1 | | | | 5 | | | | 10 | | | | | 15 | | |
| Asp | Ile | Gln | Glu | Leu | Gln | Pro | Phe | Leu | Phe | Val | Val | Phe | Leu | Thr | Ile |
| | | 20 | | | | | 25 | | | | | 30 | | | |
| Tyr | Phe | Ile | Ser | Val | Ala | Gly | Asn | Gly | Ala | Ile | Leu | Met | Ile | Val | Ile |
| | 35 | | | | | 40 | | | | | 45 | | | | |
| Ser | Asp | Pro | Arg | Leu | His | Ser | Pro | Met | Tyr | Phe | Phe | Leu | Gly | Asn | Leu |
| | 50 | | | | 55 | | | | | 60 | | | | | |
| Ser | Cys | Leu | Asp | Ile | Cys | Tyr | Ser | Ser | Val | Thr | Leu | Pro | Lys | Met | Leu |
| | 65 | | | | 70 | | | | 75 | | | | | 80 | |
| Gln | Asn | Phe | Leu | Ser | Ala | His | Lys | Ala | Ile | Ser | Phe | Leu | Gly | Cys | Ile |
| | | | 85 | | | | | 90 | | | | | 95 | | |
| Ser | Gln | Leu | His | Phe | Phe | His | Phe | Leu | Gly | Ser | Thr | Glu | Ala | Met | Leu |
| | | 100 | | | | | 105 | | | | | 110 | | | |
| Leu | Ala | Val | Met | Ala | Phe | Asp | Arg | Phe | Val | Ala | Ile | Cys | Lys | Pro | Leu |
| | 115 | | | | | 120 | | | | | 125 | | | | |
| Arg | Tyr | Thr | Val | Ile | Met | Asn | Pro | Gln | Leu | Cys | Thr | Gln | Met | Ala | Ile |
| | 130 | | | | 135 | | | | | 140 | | | | | |
| Thr | Ile | Trp | Met | Ile | Gly | Phe | Phe | His | Ala | Leu | Leu | His | Ser | Leu | Met |
| | 145 | | | 150 | | | | 155 | | | | | | 160 | |
| Thr | Ser | Arg | Leu | Asn | Phe | Cys | Gly | Ser | Asn | Arg | Ile | Tyr | His | Phe | Phe |
| | | | 165 | | | | 170 | | | | | | 175 | | |
| Cys | Asp | Val | Lys | Pro | Leu | Leu | Lys | Leu | Ser | Leu | Ile | Ser | Gly | Trp | Leu |
| | | 180 | | | | | 185 | | | | | 190 | | | |
| Ser | Thr | Val | Thr | Gly | Thr | Ile | Ala | Met | Gly | Pro | Phe | Phe | Leu | Thr | Leu |
| | 195 | | | | | 200 | | | | | 205 | | | | |
| Leu | Ser | Tyr | Phe | Tyr | Ile | Ile | Thr | His | Leu | Phe | Phe | Lys | Thr | His | Ser |
| | 210 | | | | 215 | | | | | 220 | | | | | |
| Phe | Ser | Met | Leu | Arg | Lys | Ala | Leu | Ser | Thr | Cys | Ala | Ser | His | Phe | Met |
| | 225 | | | | 230 | | | | 235 | | | | | 240 | |
| Val | Val | Ile | Leu | Leu | Tyr | Ala | Pro | Val | Leu | Phe | Thr | Tyr | Ile | His | His |
| | | | 245 | | | | | 250 | | | | | 255 | | |
| Ala | Ser | Gly | Thr | Ser | Met | Asp | Gln | Asp | Arg | Ile | Thr | Ala | Ile | Met | Tyr |
| | | 260 | | | | | 265 | | | | | 270 | | | |
| Thr | Val | Val | Thr | Pro | Val | Leu | Asn | Pro | Leu | Ile | Tyr | Thr | Leu | Arg | Asn |
| | 275 | | | | | 280 | | | | | 285 | | | | |
| Lys | Glu | Val | Lys | Gly | Ala | Phe | Asn | Arg | Ala | Met | Lys | Arg | Trp | Leu | Trp |
| | 290 | | | | 295 | | | | | 300 | | | | | |
| Pro | Lys | Glu | Ile | Leu | | | | | | | | | | | |
| 305 | | | | | | | | | | | | | | | |

<210> 1894

<211> 328
 <212> PRT
 <213> Unknown (H38g812 protein)

<220>
 <223> Synthetic construct

<221> VARIANT
 <222> (1)...(328)
 <223> Xaa = Any Amino Acid

<400> 1894

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Val | Asp | Gln | Val | Asn | Asp | Ser | Leu | Val | Thr | Glu | Phe | Val | Leu | Leu |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |
| Gly | Leu | Ala | Gln | Ser | Leu | Glu | Met | Gln | Phe | Phe | Leu | Phe | Leu | Phe | Phe |
| | | | 20 | | | | | 25 | | | | | 30 | | |
| Ser | Leu | Phe | Tyr | Val | Gly | Ile | Ile | Leu | Gly | Asn | Leu | Phe | Ile | Val | Phe |
| | | | 35 | | | | 40 | | | | | 45 | | | |
| Thr | Val | Ile | Phe | Asp | Pro | His | Leu | His | Ser | Pro | Met | Tyr | Ile | Leu | Leu |
| | | | 50 | | | 55 | | | | | 60 | | | | |
| Ala | Asn | Leu | Ser | Leu | Ile | Asp | Leu | Ser | Leu | Ser | Ser | Thr | Thr | Val | Pro |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |
| Arg | Leu | Ile | Tyr | Asp | Leu | Phe | Thr | Asp | Cys | Lys | Val | Ile | Ser | Phe | His |
| | | | | 85 | | | | | 90 | | | | | 95 | |
| Asn | Cys | Met | Ile | Gln | Lys | Phe | Phe | Ile | His | Val | Thr | Gly | Gly | Val | Glu |
| | | | 100 | | | | | 105 | | | | | 110 | | |
| Met | Val | Leu | Leu | Ile | Val | Met | Glu | Tyr | Asp | Arg | Tyr | Thr | Ala | Ile | Cys |
| | | | 115 | | | | 120 | | | | | 125 | | | |
| Lys | Pro | Leu | His | Tyr | Pro | Thr | Ile | Met | Asn | Pro | Lys | Met | Cys | Met | Phe |
| | | | 130 | | | 135 | | | | | 140 | | | | |
| Leu | Val | Ala | Ala | Ala | Trp | Val | Ile | Gly | Val | Ile | His | Ala | Met | Ser | Gln |
| 145 | | | | | 150 | | | | | 155 | | | | | 160 |
| Phe | Val | Phe | Val | Ile | Asn | Xaa | Pro | Phe | Cys | Gly | Pro | Asn | Asn | Val | Gly |
| | | | | 165 | | | | | 170 | | | | | 175 | |
| Ser | Phe | Tyr | Cys | Asp | Phe | Pro | Arg | Val | Ile | Lys | Leu | Ala | Cys | Met | Asp |
| | | | 180 | | | | | 185 | | | | | 190 | | |
| Thr | Tyr | Gly | Leu | Glu | Phe | Val | Val | Thr | Ala | Asn | Ser | Gly | Phe | Ile | Ser |
| | | | 195 | | | | 200 | | | | | 205 | | | |
| Met | Gly | Thr | Phe | Phe | Phe | Leu | Ile | Val | Ser | Tyr | Ile | Phe | Ile | Leu | Val |
| | | | 210 | | | 215 | | | | | 220 | | | | |
| Thr | Val | Gln | Arg | His | Ser | Ser | Asn | Asp | Leu | Ser | Lys | Ala | Phe | Phe | Thr |
| 225 | | | | | 230 | | | | | 235 | | | | | 240 |
| Ser | Xaa | Ala | His | Ile | Thr | Val | Val | Val | Leu | Phe | Phe | Ala | Pro | Cys | Met |
| | | | | 245 | | | | | 250 | | | | | 255 | |
| Phe | Leu | Tyr | Val | Trp | Pro | Phe | Pro | Thr | Lys | Ser | Leu | Asp | Lys | Phe | Phe |
| | | | 260 | | | | | 265 | | | | | 270 | | |
| Ala | Ile | Met | Asn | Phe | Val | Val | Thr | Pro | Val | Leu | Asn | Pro | Ala | Ile | Tyr |
| | | | 275 | | | | 280 | | | | | 285 | | | |
| Thr | Leu | Arg | Asn | Lys | Asp | Met | Lys | Phe | Ala | Met | Arg | Arg | Leu | Asn | Gln |
| | | | 290 | | | 295 | | | | | 300 | | | | |
| His | Ile | Leu | Asn | Ser | Met | Glu | Thr | Thr | Xaa | His | Ile | Trp | Leu | Met | Arg |
| 305 | | | | | 310 | | | | | 315 | | | | | 320 |
| Ala | Gln | Asp | Lys | Cys | His | Gly | Pro | | | | | | | | |
| | | | | 325 | | | | | | | | | | | |

<210> 1895
 <211> 272
 <212> PRT
 <213> Unknown (H38g813 protein)

<220>

<223> Synthetic construct

<400> 1895

```

Met Trp Ile Asn Asn Gln Ser Ser Leu Asp Asp Phe Ile Leu Leu Gly
 1           5           10           15
Phe Ser Asp Arg Pro Trp Leu Glu Thr Pro Leu Val Ile Phe Leu Val
          20           25           30
Ala Tyr Ile Phe Ser Leu Phe Gly Asn Ile Ser Ile Ile Leu Val Ser
          35           40           45
His Leu Asp Pro Gln Leu Asp Ser Pro Met Tyr Phe Phe Val Ser Asn
          50           55           60
Leu Ser Phe Leu Asp Leu Cys Tyr Thr Thr Ser Thr Val Pro Gln Met
          65           70           75           80
Leu Val Asn Leu Arg Gly Pro Glu Lys Thr Ile Ser Tyr Gly Gly Cys
          85           90           95
Val Ala Gln Leu Tyr Ile Phe Leu Ala Leu Gly Ser Thr Glu Cys Ile
          100          105          110
Leu Leu Ala Ile Met Ala Phe Asp Arg Tyr Ala Ala Ile Cys Lys Pro
          115          120          125
Leu His Tyr Pro Val Ile Met Asn His Arg Arg Cys Ile His Met Ala
          130          135          140
Ala Gly Thr Trp Ile Ser Gly Phe Ala Asn Ser Leu Val Gln Ser Thr
          145          150          155          160
Leu Thr Val Val Ala Pro Arg Cys Gly Gln Arg Val Leu Asp His Phe
          165          170          175
Phe Cys Glu Val Pro Ala Leu Leu Lys Leu Ala Cys Ile Asp Ile Arg
          180          185          190
Val Asn Glu Met Glu Leu Asn Val Leu Gly Ala Leu Leu Leu Leu Met
          195          200          205
Pro Leu Thr Leu Ile Leu Gly Thr Tyr Val Phe Ile Ala Gln Ala Val
          210          215          220
Met Arg Ile Cys Ser Ala Glu Ser Arg Trp Lys Ala Phe Asn Thr Cys
          225          230          235          240
Ala Ser His Leu Leu Val Val Ser Leu Phe Tyr Phe Thr Ala Ile Ser
          245          250          255
Met Tyr Val Gln Pro Pro Ser Ser Tyr Ser His Asp Arg Gly Lys Ile
          260          265          270

```

<210> 1896

<211> 315

<212> PRT

<213> Unknown (H38g814 protein)

<220>

<223> Synthetic construct

<400> 1896

```

Met Asn Val Ser Glu Pro Asn Ser Ser Phe Ala Phe Val Asn Glu Phe
 1           5           10           15
Ile Leu Gln Gly Phe Ser Cys Glu Trp Thr Ile Gln Ile Phe Leu Phe
          20           25           30
Ser Leu Phe Thr Thr Thr Tyr Ala Leu Thr Ile Thr Gly Asn Gly Ala
          35           40           45
Ile Ala Phe Val Leu Trp Cys Asp Arg Arg Leu His Thr Pro Met Tyr
          50           55           60
Met Phe Leu Gly Asn Phe Ser Phe Leu Glu Ile Trp Tyr Val Ser Ser
          65           70           75           80
Thr Val Pro Lys Met Leu Val Asn Phe Leu Ser Glu Lys Lys Asn Ile
          85           90           95
Ser Phe Ala Gly Cys Phe Leu Gln Phe Tyr Phe Phe Phe Ser Leu Gly
          100          105          110

```

Thr Ser Glu Cys Leu Leu Leu Thr Val Met Ala Phe Asp Gln Tyr Leu
 115 120 125
 Ala Ile Cys Arg Pro Leu Leu Tyr Pro Asn Ile Met Thr Gly His Leu
 130 135 140
 Tyr Ala Lys Leu Val Ile Leu Cys Trp Val Cys Gly Phe Leu Trp Phe
 145 150 155 160
 Leu Ile Pro Ile Val Leu Ile Ser Gln Met Pro Phe Cys Gly Pro Asn
 165 170 175
 Ile Ile Asp His Val Val Cys Asp Pro Gly Pro Arg Phe Ala Leu Asp
 180 185 190
 Cys Val Ser Ala Pro Arg Ile Gln Leu Phe Cys Tyr Thr Leu Ser Ser
 195 200 205
 Leu Val Ile Phe Gly Asn Phe Leu Phe Ile Ile Gly Ser Tyr Thr Leu
 210 215 220
 Val Leu Lys Ala Met Leu Gly Met Pro Ser Ser Thr Gly Arg His Lys
 225 230 235 240
 Ala Phe Ser Thr Cys Gly Ser His Leu Ala Val Val Ser Leu Cys Tyr
 245 250 255
 Ser Ser Leu Met Val Met Tyr Val Ser Pro Gly Leu Gly His Ser Thr
 260 265 270
 Gly Met Gln Lys Ile Glu Thr Leu Phe Tyr Ala Met Val Thr Pro Leu
 275 280 285
 Phe Asn Pro Leu Ile Tyr Ser Leu Gln Asn Lys Glu Ile Lys Ala Ala
 290 295 300
 Leu Arg Lys Val Leu Gly Ser Ser Asn Ile Ile
 305 310 315

<210> 1897

<211> 305

<212> PRT

<213> Unknown (H38g815 protein)

<220>

<223> Synthetic construct

<400> 1897

Met Val Thr Glu Phe Ile Phe Leu Gly Leu Ser Asp Ser Gln Gly Leu
 1 5 10 15
 Gln Thr Phe Leu Phe Met Leu Phe Phe Val Phe Tyr Gly Gly Ile Val
 20 25 30
 Phe Gly Asn Leu Leu Ile Val Ile Thr Val Val Ser Asp Ser His Leu
 35 40 45
 His Ser Pro Met Tyr Phe Leu Ala Asn Leu Ser Leu Ile Asp Leu
 50 55 60
 Ser Leu Ser Ser Val Thr Ala Pro Lys Met Ile Thr Asp Phe Phe Ser
 65 70 75 80
 Gln Arg Lys Val Ile Ser Phe Lys Gly Cys Leu Val Gln Ile Phe Leu
 85 90 95
 Leu His Phe Phe Gly Gly Ser Glu Met Val Ile Leu Ile Ala Met Gly
 100 105 110
 Tyr Asp Arg Tyr Ile Ala Ile Cys Lys Pro Leu Asn Tyr Thr Thr Ile
 115 120 125
 Met Cys Gly Asn Ala Cys Val Gly Ile Met Ala Val Ala Trp Gly Ile
 130 135 140
 Gly Phe Leu His Ser Val Ser Gln Leu Ala Phe Ala Val His Leu Pro
 145 150 155 160
 Phe Cys Gly Pro Asn Glu Val Asp Ser Phe Tyr Cys Asp Leu Pro Arg
 165 170 175
 Val Ile Lys Leu Ala Cys Thr Asp Thr Tyr Arg Leu Asp Ile Met Val
 180 185 190
 Ile Ala Asn Ser Gly Val Leu Thr Val Cys Ser Phe Val Leu Leu Ile

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Ser | Tyr | Thr | Ile | Ile | Leu | Met | Thr | Ile | Gln | His | Arg | Pro | Leu | Asp |
| 210 | | | | | | 215 | | | | | 220 | | | | |
| Lys | Ser | Ser | Lys | Ala | Leu | Ser | Thr | Leu | Thr | Ala | His | Ile | Thr | Val | Val |
| 225 | | | | | 230 | | | | | 235 | | | | | 240 |
| Leu | Leu | Phe | Phe | Gly | Pro | Cys | Val | Phe | Ile | Tyr | Ala | Trp | Pro | Phe | Pro |
| | | | | 245 | | | | | 250 | | | | | 255 | |
| Ile | Lys | Ser | Leu | Asp | Lys | Phe | Leu | Ala | Val | Phe | Tyr | Ser | Val | Ile | Thr |
| | | | 260 | | | | | 265 | | | | | 270 | | |
| Pro | Leu | Leu | Asn | Pro | Ile | Ile | Tyr | Thr | Leu | Arg | Asn | Lys | Asp | Met | Lys |
| | | 275 | | | | | 280 | | | | | 285 | | | |
| Thr | Ala | Ile | Arg | Gln | Leu | Arg | Lys | Trp | Asp | Ala | His | Ser | Ser | Val | Lys |
| 290 | | | | | | 295 | | | | | 300 | | | | |
| Phe | | | | | | | | | | | | | | | |
| 305 | | | | | | | | | | | | | | | |

<210> 1898

<211> 318

<212> PRT

<213> Unknown (H38g816 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(318)

<223> Xaa = Any Amino Acid

<400> 1898

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Thr | Leu | Pro | Ser | Asp | Asp | Ser | Thr | Val | Pro | Val | Ser | Glu | Phe | Leu |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |
| Leu | Ile | Cys | Phe | Pro | Asn | Phe | Gln | Ser | Trp | Gln | His | Leu | Leu | Ser | Leu |
| | | | 20 | | | | 25 | | | | | 30 | | | |
| Pro | Leu | Ser | Leu | Met | Phe | Leu | Leu | Ala | Met | Gly | Thr | Asn | Thr | Thr | Pro |
| | | 35 | | | | | 40 | | | | | 45 | | | |
| Pro | Ile | Thr | Ile | His | Leu | Glu | Ala | Ser | Leu | His | Leu | Pro | Leu | Tyr | Tyr |
| | 50 | | | | 55 | | | | | 60 | | | | | |
| Leu | Pro | Ser | Leu | Leu | Ser | Leu | Leu | Asp | Ile | Val | Leu | Cys | Leu | Thr | Val |
| 65 | | | | 70 | | | | | 75 | | | | | | 80 |
| Ile | Pro | Lys | Val | Leu | Ala | Ile | Phe | Trp | Phe | Asp | Leu | Arg | Ser | Ile | Gly |
| | | | 85 | | | | | 90 | | | | | 95 | | |
| Phe | Pro | Ala | Cys | Phe | Leu | Gln | Met | Phe | Ile | Met | Asn | Ser | Phe | Leu | Pro |
| | | 100 | | | | | 105 | | | | | | 110 | | |
| Met | Glu | Ser | Cys | Thr | Phe | Met | Val | Lys | Asp | Tyr | Asp | His | Tyr | Val | Ala |
| | 115 | | | | | | 120 | | | | | 125 | | | |
| Ile | Cys | His | Pro | Leu | Gln | Tyr | Leu | Ser | Ile | Ile | Thr | His | Gln | Phe | Val |
| | 130 | | | | 135 | | | | | | 140 | | | | |
| Ala | Lys | Ala | Ser | Val | Phe | Ile | Val | Val | Gln | Asn | Ala | Leu | Leu | Leu | Ser |
| 145 | | | | 150 | | | | | 155 | | | | | | 160 |
| Pro | Val | Pro | Ile | Leu | Ser | Ala | Gln | Leu | His | Tyr | Cys | Arg | Lys | Asn | Val |
| | | | 165 | | | | | 170 | | | | | | 175 | |
| Ile | Glu | Asn | Cys | Ile | Cys | Ala | Asn | Leu | Ser | Val | Ser | Arg | Leu | Ser | Cys |
| | | 180 | | | | | 185 | | | | | | 190 | | |
| Asp | Asn | Phe | Thr | Leu | Asn | Arg | Leu | Tyr | Gln | Phe | Val | Ala | Gly | Trp | Thr |
| | 195 | | | | | 200 | | | | | | 205 | | | |
| Phe | Leu | Gly | Ser | Asp | Phe | Ile | Leu | Ile | Phe | Leu | Ser | Tyr | Thr | Phe | Ile |
| | 210 | | | | | 215 | | | | | 220 | | | | |
| Leu | Arg | Ala | Val | Leu | Arg | Phe | Lys | Val | Glu | Gly | Val | Ala | Val | Lys | Ala |
| 225 | | | | 230 | | | | | 235 | | | | | | 240 |
| Leu | Ser | Thr | Cys | Gly | Ser | His | Phe | Ile | Leu | Ile | Leu | Phe | Phe | Ser | Ile |
| | | | 245 | | | | | 250 | | | | | | 255 | |

Leu Leu Val Val Val Leu Thr Asn Val Ala Arg Lys Lys Val Pro Met
 260 265 270
 Asp Ile Leu Ile Leu Phe Asn Val Leu His Pro Phe Ser Pro Pro Ala
 275 280 285
 Leu Asn Pro Ile Ile Cys Gly Phe Gln Thr Lys Glu Leu Lys Lys Glu
 290 295 300
 Phe Xaa Lys Leu Leu Gln Arg Gly Leu Xaa Lys His Gly Arg
 305 310 315

<210> 1899

<211> 317

<212> PRT

<213> Unknown (H38g817 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(317)

<223> Xaa = Any Amino Acid

<400> 1899

Lys His Asn His Thr Ala Val Thr Lys Val Thr Glu Phe Ile Leu Met
 1 5 10 15
 Gly Ile Thr Asp Asn Pro Gly Leu Gln Ala Pro Leu Phe Gly Leu Phe
 20 25 30
 Leu Ile Ile Tyr Leu Val Thr Val Ile Gly Asn Leu Gly Met Val Ile
 35 40 45
 Leu Thr Tyr Leu Asp Ser Lys Leu His Thr Pro Met Tyr Phe Phe Leu
 50 55 60
 Lys His Leu Ala Ile Thr Asp Leu Gly Tyr Ser Thr Val Ile Gly Pro
 65 70 75 80
 Gln Met Met Phe Ser Glu Thr Ser Tyr Val His Lys Glu His Asn Phe
 85 90 95
 Phe Tyr Asn Trp Tyr Ala Asn His Arg Ala Arg Phe Glu Arg Asn Ile
 100 105 110
 Ile Ser His Arg Gly Ile Leu Ser Ala Thr Asn Asn Glu Pro Tyr Lys
 115 120 125
 Pro Ile Thr Lys Gln Leu Leu Asn Pro Ile Ile Met Pro Glu Lys Ile
 130 135 140
 Arg Glu Glu Gln Ile Thr Val Pro Glu Leu Asp Lys Thr Cys Ala Pro
 145 150 155 160
 Leu Phe Leu Lys Arg Lys Xaa Val Lys Thr Val Ser Thr Asn Pro Asp
 165 170 175
 Thr Thr Asn Asn Cys His Gly Glu Gly Thr Ala Lys Met Xaa Ile Leu
 180 185 190
 Arg Ser Glu Lys Lys Lys Ile Thr Ile Ile Lys Ala Met Thr Ala Gly
 195 200 205
 Thr Asn Met Leu Ile Ser Leu Ser Ile Val Leu Ile Ser Tyr Met Phe
 210 215 220
 Ile Leu Val Ala Asn Leu Arg Met Asn Ser Arg Lys Gly Arg Tyr Lys
 225 230 235 240
 Ala Phe Ser Thr Cys Ser Ser His Leu Thr Val Val Ile Met Phe Tyr
 245 250 255
 Gly Thr Leu Leu Phe Ile Tyr Leu Gln Pro Lys Ser Ser His Thr Leu
 260 265 270
 Ala Ile Asp Lys Met Ala Ser Val Phe Tyr Thr Leu Leu Ile Pro Met
 275 280 285
 Leu Asn Pro Leu Ile Tyr Ser Leu Arg Asn Lys Glu Val Lys Asp Ala
 290 295 300
 Leu Lys Arg Thr Leu Thr Asn Arg Phe Lys Ile Pro Ile

305

310

315

<210> 1900
 <211> 220
 <212> PRT
 <213> Unknown (H38g818 protein)

<220>
 <223> Synthetic construct

<221> VARIANT
 <222> (1)...(220)
 <223> Xaa = Any Amino Acid

<400> 1900
 Ser Asn Leu Cys Trp Ala Asp Ile Gly Phe Thr Ser Ala Met Val Pro
 1 5 10 15
 Lys Met Ile Val Asp Met Gln Ser His Ser Arg Val Ile Pro Tyr Ala
 20 25 30
 Gly Cys Leu Thr Arg Met Ser Phe Leu Val Leu Phe Ala Cys Ile Glu
 35 40 45
 Asp Met Leu Leu Thr Val Met Ala Tyr Asp Cys Phe Val Ala Ile Cys
 50 55 60
 Arg Pro Leu His Tyr Pro Val Ile Met Asn Pro His Leu Cys Val Phe
 65 70 75 80
 Phe Val Leu Val Ser Phe Phe Leu Ser Leu Leu Asp Ser Gln Leu His
 85 90 95
 Ser Xaa Ile Val Leu Gln Phe Thr Phe Phe Ser Asn Val Glu Ile Ala
 100 105 110
 Asn Phe Val Tyr Glu Pro Ser Gln Leu Leu Asn Leu Asp Cys Ser Asp
 115 120 125
 Thr Val Ile Asn Ser Ile Phe Ile Tyr Phe Asp Ser Met Phe Gly Phe
 130 135 140
 Leu Pro Ile Ser Gly Ile Leu Leu Ser Xaa Tyr Lys Ile Val Pro Ser
 145 150 155 160
 Ile Leu Arg Met Ser Ser Ser Asp Gly Lys Tyr Lys Ala Phe Ala Thr
 165 170 175
 Cys Gly Ser His Leu Ala Val Val Cys Xaa Phe Asp Gly Thr Gly Ile
 180 185 190
 Gly Met Tyr Leu Thr Ser Ala Val Ser Pro Pro Pro Arg Asn Gly Val
 195 200 205
 Ala Ala Ser Val Met Tyr Ala Val Val Thr Pro Met
 210 215 220

<210> 1901
 <211> 311
 <212> PRT
 <213> Unknown (H38g819 protein)

<220>
 <223> Synthetic construct

<400> 1901
 Met Glu Lys Ser Asn Asn Ser Thr Leu Phe Ile Leu Leu Gly Phe Ser
 1 5 10 15
 Gln Asn Lys Asn Ile Glu Val Leu Cys Phe Val Leu Phe Leu Phe Cys
 20 25 30
 Tyr Ile Ala Ile Trp Met Gly Asn Leu Leu Ile Met Ile Ser Ile Thr
 35 40 45
 Cys Thr Gln Leu Ile His Gln Pro Met Tyr Phe Phe Leu Asn Tyr Leu
 50 55 60

```

Ser Leu Ser Asp Leu Cys Tyr Thr Ser Thr Val Thr Pro Lys Leu Met
65          70          75          80
Val Asp Leu Leu Ala Glu Arg Lys Thr Ile Ser Tyr Asn Asn Cys Met
          85          90          95
Ile Gln Leu Phe Thr Thr His Phe Phe Gly Gly Ile Glu Ile Phe Ile
          100          105          110
Leu Thr Gly Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Lys Pro Leu
          115          120          125
His Tyr Thr Ile Ile Met Ser Arg Gln Lys Cys Asn Thr Ile Ile Ile
          130          135          140
Val Cys Trp Thr Gly Gly Phe Ile His Ser Ala Ser Gln Phe Leu Leu
145          150          155          160
Thr Ile Phe Val Pro Phe Cys Gly Pro Asn Glu Ile Asp His Tyr Phe
          165          170          175
Cys Asp Val Tyr Pro Leu Leu Lys Leu Ala Cys Ser Asn Ile His Met
          180          185          190
Ile Gly Leu Leu Val Ile Ala Asn Ser Gly Leu Ile Ala Leu Val Thr
          195          200          205
Phe Val Val Leu Leu Leu Ser Tyr Val Phe Ile Leu Tyr Thr Ile Arg
210          215          220
Ala Tyr Ser Ala Glu Arg Ser Lys Ala Leu Ala Thr Cys Ser Ser
225          230          235          240
His Val Ile Val Val Val Leu Phe Phe Ala Pro Ala Leu Phe Ile Tyr
          245          250          255
Ile Arg Pro Val Thr Thr Phe Ser Glu Asp Lys Val Phe Ala Leu Phe
          260          265          270
Tyr Thr Ile Ile Ala Pro Met Phe Asn Pro Leu Ile Tyr Thr Leu Arg
          275          280          285
Asn Thr Glu Met Lys Asn Ala Met Arg Lys Val Trp Cys Cys Gln Ile
          290          295          300
Leu Leu Lys Arg Asn Gln Leu
305          310

```

<210> 1902

<211> 222

<212> PRT

<213> Unknown (H38g820 protein)

<220>

<223> Synthetic construct

<400> 1902

```

Arg Asn Phe Ser Phe Leu Glu Ile Ser Phe Thr Thr Val Cys Ile Pro
1          5          10          15
Arg Phe Leu Gly Ala Ile Ile Thr Arg Asn Lys Thr Ile Ser Tyr Asn
          20          25          30
Asn Cys Ala Ala Gln Leu Phe Phe Ile Phe Met Gly Val Thr Glu
          35          40          45
Phe Tyr Ile Leu Thr Ala Met Ser Tyr Asp Arg Tyr Val Ala Ile Cys
          50          55          60
Lys Pro Leu His Tyr Thr Ser Ile Met Asn Arg Lys Leu Cys Thr Leu
65          70          75          80
Leu Val Leu Cys Ala Trp Leu Ser Gly Phe Pro Thr Ile Phe Pro Pro
          85          90          95
Leu Met Leu Leu Leu Gln Leu Asp Tyr Cys Ala Ser Asn Val Ile Asp
          100          105          110
His Phe Ala Cys Asp Tyr Phe Pro Leu Leu Gln Leu Ser Cys Ser Asp
          115          120          125
Thr Trp Leu Leu Glu Val Ile Gly Phe Tyr Phe Ala Leu Val Thr Leu
          130          135          140
Leu Phe Thr Leu Ala Leu Val Ile Leu Ser Tyr Met Tyr Ile Ile Arg

```

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 145 | | 150 | | 155 | | 160 | | | | | | | | | |
| Thr | Ile | Leu | Arg | Ile | Pro | Ser | Ala | Ser | Gln | Arg | Lys | Lys | Ala | Phe | Ser |
| | | 165 | | | | | | | 170 | | | | | 175 | |
| Thr | Cys | Ser | Ser | His | Met | Ile | Val | Ile | Ser | Ile | Ser | Tyr | Gly | Ser | Cys |
| | | 180 | | | | | | | 185 | | | | | 190 | |
| Ile | Phe | Met | Tyr | Ala | Asn | Pro | Ser | Ala | Lys | Glu | Lys | Ala | Ser | Leu | Thr |
| | | 195 | | | | | 200 | | | | | 205 | | | |
| Lys | Gly | Ile | Ala | Ile | Leu | Asn | Thr | Ser | Val | Ala | Pro | Met | Leu | | |
| | 210 | | | | | 215 | | | | | 220 | | | | |

<210> 1903

<211> 267

<212> PRT

<213> Unknown (H38g821 protein)

<220>

<223> Synthetic construct

<400> 1903

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Ile | Leu | Cys | Phe | Phe | Ile | Ile | Gly | Asn | Ser | Gln | Asp | Asn | Ser | Gln |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |
| Met | Thr | Leu | Met | Asp | Asn | Ile | Ser | Glu | Val | Thr | Glu | Phe | Val | Leu | Val |
| | | 20 | | | | | | 25 | | | | | 30 | | |
| Gly | Leu | Thr | Asp | Val | Leu | Glu | Leu | Gln | Val | Pro | Leu | Phe | Ile | Ile | Phe |
| | | 35 | | | | 40 | | | | | | 45 | | | |
| Thr | Val | Ile | Tyr | Leu | Thr | Thr | Leu | Val | Gly | Asn | Phe | Gly | Met | Ile | Met |
| | 50 | | | | 55 | | | | | 60 | | | | | |
| Leu | Ile | Leu | Leu | Asp | Ser | Arg | Leu | His | Ile | Pro | Met | Tyr | Phe | Phe | Leu |
| 65 | | | | 70 | | | | | 75 | | | | | 80 | |
| Gly | Lys | Leu | Ser | Leu | Val | Asp | Ser | Val | Cys | Ala | Cys | Leu | Val | Thr | Gly |
| | | 85 | | | | | | 90 | | | | | 95 | | |
| Ser | Tyr | Ile | Cys | Gly | Leu | Phe | Gln | Ser | Ser | Ile | His | Val | Ala | Phe | Thr |
| | | 100 | | | | | 105 | | | | | | 110 | | |
| Phe | His | Leu | Ser | Phe | Cys | His | Ser | Asn | Val | Val | Asn | His | Phe | Phe | Cys |
| | 115 | | | | | 120 | | | | | 125 | | | | |
| Asp | Ile | Pro | Pro | Leu | Leu | Ala | Leu | Ser | Cys | Ser | Asp | Ile | Tyr | Ala | His |
| | 130 | | | | 135 | | | | | | 140 | | | | |
| Glu | Ile | Val | Leu | Phe | Ile | Leu | Ala | Ala | Phe | Asn | Ile | Phe | Phe | Thr | Leu |
| 145 | | | | 150 | | | | | 155 | | | | | 160 | |
| Leu | Ile | Ile | Leu | Asn | Ser | Tyr | Val | Phe | Ile | Phe | Ile | Ala | Ile | Leu | Arg |
| | | | 165 | | | | | 170 | | | | | | 175 | |
| Met | His | Ser | Ala | Glu | Gly | Gln | Lys | Lys | Val | Phe | Ser | Thr | Cys | Ala | Tyr |
| | | 180 | | | | | 185 | | | | | | 190 | | |
| His | Leu | Thr | Thr | Val | Ser | Ile | Phe | Tyr | Gly | Thr | Ile | Thr | Phe | Met | Tyr |
| | 195 | | | | | 200 | | | | | | 205 | | | |
| Leu | Gln | Pro | Ser | Ser | Gly | His | Ser | Met | Asp | Thr | Asp | Lys | Ile | Ser | Ser |
| | 210 | | | | 215 | | | | | | 220 | | | | |
| Val | Phe | Tyr | Thr | Met | Val | Ile | Pro | Met | Leu | Asn | Pro | Leu | Val | Tyr | Ser |
| | 225 | | | 230 | | | | | 235 | | | | | 240 | |
| Leu | Arg | Asn | Lys | Glu | Val | Gln | Ser | Ala | Phe | Lys | Val | Val | Ile | Gly | Lys |
| | | | 245 | | | | | 250 | | | | | | 255 | |
| Ala | Lys | Ser | Ser | Leu | Gly | Leu | Ala | Tyr | Tyr | Leu | | | | | |
| | | 260 | | | | | 265 | | | | | | | | |

<210> 1904

<211> 316

<212> PRT

<213> Unknown (H38g822 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(316)

<223> Xaa = Any Amino Acid

<400> 1904

```

Trp Xaa Pro Val Phe Asn Gln Ser Ala Pro Leu Gln Phe Val Phe Arg
 1          5          10          15
Val Phe Thr Thr Val Pro Glu Phe Gln Val Leu Leu Phe Leu Leu Phe
 20          25          30
Leu Leu Phe Tyr Leu Met Ile Leu Cys Gly Asn Thr Ala Ile Ile Trp
 35          40          45
Val Val Cys Thr Tyr Ser Val Leu Arg Thr Pro Met Tyr Phe Phe Leu
 50          55          60
Ser Asn Leu Ser Phe Val Glu Ile Cys Tyr Thr Thr Val Val Val Pro
 65          70          75          80
Leu Met Leu Ser Asn Ile Phe Gly Ala Gln Lys Pro Ile Pro Leu Ala
 85          90          95
Gly Cys Gly Ala Gln Met Phe Phe Phe Leu Thr Leu Gly Gly Ala Asp
 100          105          110
Cys Phe Leu Leu Ala Ile Val Ala Tyr Asp Arg Tyr Val Ala Ile Cys
 115          120          125
His Pro Leu His Tyr Arg Leu Ile Met Thr Cys Asn Leu Cys Val Gln
 130          135          140
Met Leu Gly Gly Ala Val Gly Leu Ala Leu Phe Leu Ser Leu Gln Leu
 145          150          155          160
Thr Ala Leu Ile Phe Thr Leu Pro Phe Cys Gly Tyr Arg Gln Glu Ile
 165          170          175
Asn His Phe Leu Cys Asp Val Pro Pro Val Leu Arg Leu Ala Cys Ala
 180          185          190
Ala Ile Arg Val His Gln Ala Val Leu Tyr Val Val Ser Ile Leu Val
 195          200          205
Leu Thr Val Pro Phe Leu Leu Ile Cys Val Ser Tyr Val Phe Ile Thr
 210          215          220
Cys Ala Ile Leu Ser Ile Arg Ser Ala Glu Gly Arg His Gln Ala Phe
 225          230          235          240
Ser Thr Cys Ser Ser His Leu Thr Val Val Leu Leu Gln Tyr Gly Cys
 245          250          255
Cys Ala Leu Ala Tyr Leu His Pro Gln Ser Ser Ser Ser Ala Asp Glu
 260          265          270
Asp Arg Gln Phe Ala Leu Val Tyr Thr Phe Ile Thr Pro Leu Leu Asn
 275          280          285
Pro Leu Ile Tyr Thr Leu Arg Asn Lys Asp Val Lys Gly Ala Leu Glu
 290          295          300
Lys Ser Ala Gln Tyr Gln Arg Asp Thr Xaa Val Leu
 305          310          315

```

<210> 1905

<211> 312

<212> PRT

<213> Unknown (H38g823 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(312)

<223> Xaa = Any Amino Acid

<400> 1905

Met Xaa Asn Ser Arg Glu Ala Ser Gln Phe Ile Phe Leu Gly Leu Ser

| | | | |
|---|-----|-----|-----|
| 1 | 5 | 10 | 15 |
| Asn Val Pro Glu Leu Gln Val Pro Phe Ile Met Phe Val Leu Ile | | | |
| | 20 | 25 | 30 |
| Tyr Leu Ile Asn Val Val Gly Asn Leu Gly Met Ile Ile Leu Ile Leu | | | |
| | 35 | 40 | 45 |
| Trp Tyr Ser Gln Leu His Asn Pro Met Tyr Phe Phe Phe Ser Asn Leu | | | |
| | 50 | 55 | 60 |
| Ser Leu Val Asp Phe Phe Tyr Ser Ser Val Val Thr Pro Lys Val Met | | | |
| 65 | 70 | 75 | 80 |
| Thr Gly Leu Leu Arg Glu Asp Lys Ile Ile Ser Tyr Thr Val Trp Ala | | | |
| | 85 | 90 | 95 |
| Thr Gln Thr Phe Phe Ser Asp Ser Phe Ala Ser Val Val Asn Leu Leu | | | |
| | 100 | 105 | 110 |
| Leu Ala Leu Met Ala Ser Gly His Tyr Ala Ala Val Cys Lys Pro Leu | | | |
| | 115 | 120 | 125 |
| His Tyr Thr Thr Thr Met Met Thr Ser Val Cys Thr Cys Leu Ala Ile | | | |
| | 130 | 135 | 140 |
| Gly Xaa Tyr Val Gly Gly Phe Leu Asn Ala Ser Ile His Thr Gly Glu | | | |
| 145 | 150 | 155 | 160 |
| Thr Phe Ser Leu Phe Cys Met Ser Ser Glu Val His His Phe Phe Cys | | | |
| | 165 | 170 | 175 |
| Glu Val Pro Ala Val Met Ala Leu Ser Cys Ser Asp Arg His Val Asn | | | |
| | 180 | 185 | 190 |
| Val Val Val Leu Val Tyr Val Thr Ser Phe Asn Ile Leu Phe Ala Leu | | | |
| | 195 | 200 | 205 |
| Leu Val Ile Leu Ile Ser Tyr Leu Leu Met Phe Ile Thr Ile Leu Lys | | | |
| | 210 | 215 | 220 |
| Met His Ser Thr Ala Gly Tyr Gln Lys Ala Leu Ala Ile Cys Ala Ser | | | |
| 225 | 230 | 235 | 240 |
| His Leu Thr Ala Val Ala Ile Phe Tyr Gly Thr Ile Ile Phe Met His | | | |
| | 245 | 250 | 255 |
| Ile Gln Pro Ser Ser His Ser Ile Asp Thr Asp Lys Ile Ala Ala | | | |
| | 260 | 265 | 270 |
| Val Phe Tyr Thr Ile Val Phe Pro Met Val Asn His Val Val Xaa Arg | | | |
| | 275 | 280 | 285 |
| Leu Lys Asn Lys Val Lys Ser Thr Phe Lys Lys Ile Val Glu Lys Val | | | |
| | 290 | 295 | 300 |
| Lys Leu Ser Leu Gly Leu Xaa Val | | | |
| 305 | 310 | | |

<210> 1906

<211> 318

<212> PRT

<213> Unknown (H38g824 protein)

<220>

<223> Synthetic construct

<400> 1906

| | |
|---|----|
| Met Ala Gly Glu Asn His Thr Thr Leu Pro Glu Phe Leu Leu Leu Gly | |
| 1 | 5 |
| Phe Ser Asp Leu Lys Ala Leu Gln Gly Pro Leu Phe Trp Val Val Leu | |
| | 20 |
| Leu Val Tyr Leu Val Thr Leu Leu Gly Asn Ser Leu Ile Ile Leu Leu | |
| | 35 |
| Thr Gln Val Ser Pro Ala Leu His Ser Pro Met Tyr Phe Phe Leu Arg | |
| | 50 |
| Gln Leu Ser Val Val Glu Leu Phe Tyr Thr Thr Asp Ile Val Pro Arg | |
| 65 | 70 |
| Thr Leu Ala Asn Leu Gly Ser Pro His Pro Gln Ala Ile Ser Phe Gln | |
| | 85 |
| | 90 |
| | 95 |

Gly Cys Ala Ala Gln Met Tyr Val Phe Ile Val Leu Gly Ile Ser Glu
 100 105 110
 Cys Cys Leu Leu Thr Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys
 115 120 125
 Gln Pro Leu Arg Tyr Ser Thr Leu Leu Ser Pro Arg Ala Cys Met Ala
 130 135 140
 Met Val Gly Thr Ser Trp Leu Thr Gly Ile Ile Thr Ala Thr Thr His
 145 150 155 160
 Ala Ser Leu Ile Phe Ser Leu Pro Phe Arg Ser His Pro Ile Ile Pro
 165 170 175
 His Phe Leu Cys Asp Ile Leu Pro Val Leu Arg Leu Ala Ser Ala Gly
 180 185 190
 Lys His Arg Ser Glu Ile Ser Val Met Thr Ala Thr Ile Val Phe Ile
 195 200 205
 Met Ile Pro Phe Ser Leu Ile Val Thr Ser Tyr Ile Arg Ile Leu Gly
 210 215 220
 Ala Asn Leu Ala Met Gly Leu Thr Gln Ser Arg Arg Lys Val Phe Ser
 225 230 235 240
 Thr Cys Ser Ser His Arg Leu Val Val Ser Leu Phe Phe Gly Thr Ala
 245 250 255
 Ser Ile Thr Asn Asn Arg Pro Gln Ala Gly Ser Ser Glu Thr Thr Asp
 260 265 270
 Arg Val Ile Ser Leu Phe Asn Thr Val Ile Thr Pro Met Leu Asn Pro
 275 280 285
 Ile Ile Asn Thr His Gly Asn Lys Asp Val Arg Arg Ala Leu Arg Tyr
 290 295 300
 Leu Val Lys Arg Arg Arg Pro Ser Pro Gly Arg Gly Ser Gly
 305 310 315

<210> 1907

<211> 311

<212> PRT

<213> Unknown (H38g825 protein)

<220>

<223> Synthetic construct

<400> 1907

Met Glu Thr Lys Asn Tyr Ser Ser Ser Thr Ser Gly Phe Ile Leu Leu
 1 5 10 15
 Gly Leu Ser Ser Asn Pro Lys Leu Gln Lys Pro Leu Phe Ala Ile Phe
 20 25 30
 Leu Ile Met Tyr Leu Leu Thr Ala Val Gly Asn Val Leu Ile Ile Leu
 35 40 45
 Ala Ile Tyr Ser Asp Pro Arg Leu His Thr Pro Met Tyr Phe Phe Leu
 50 55 60
 Ser Asn Leu Ser Phe Met Asp Ile Cys Phe Thr Thr Val Ile Val Pro
 65 70 75 80
 Lys Met Leu Val Asn Phe Leu Ser Glu Thr Lys Ile Ile Ser Tyr Val
 85 90 95
 Gly Cys Leu Ile Gln Met Tyr Phe Phe Met Ala Phe Gly Asn Thr Asp
 100 105 110
 Ser Tyr Leu Leu Ala Ser Met Ala Ile Asp Arg Leu Val Ala Ile Cys
 115 120 125
 Asn Pro Leu His Tyr Asp Val Val Met Lys Pro Trp His Cys Leu Leu
 130 135 140
 Met Leu Leu Gly Ser Cys Ser Ile Ser His Leu His Ser Leu Phe Arg
 145 150 155 160
 Val Leu Leu Met Ser Arg Leu Ser Phe Cys Ala Ser His Ile Ile Lys
 165 170 175
 His Phe Phe Cys Asp Thr Gln Pro Val Leu Lys Leu Ser Cys Ser Asp

```

      180      185      190
Thr Ser Ser Ser Gln Met Val Val Met Thr Glu Thr Leu Ala Val Ile
      195      200      205
Val Thr Pro Phe Leu Cys Thr Ile Phe Ser Tyr Leu Gln Ile Ile Val
      210      215      220
Thr Val Leu Arg Ile Pro Ser Ala Ala Arg Lys Trp Lys Ala Phe Ser
225      230      235      240
Thr Cys Gly Ser His Leu Thr Val Val Val Leu Phe Tyr Gly Ser Val
      245      250      255
Ile Tyr Val Tyr Phe Arg Pro Leu Ser Met Tyr Ser Val Met Lys Gly
      260      265      270
Arg Val Ala Thr Val Met Tyr Thr Val Val Thr Pro Met Leu Asn Pro
      275      280      285
Phe Ile Tyr Ser Leu Arg Asn Lys Asp Met Lys Arg Gly Leu Lys Lys
      290      295      300
Leu Arg His Arg Ile Tyr Ser
305      310

```

<210> 1908

<211> 131

<212> PRT

<213> Unknown (H38g826 protein)

<220>

<223> Synthetic construct

<400> 1908

```

Met Lys Asn Lys Thr Val Leu Thr Glu Phe Ile Leu Leu Gly Leu Thr
 1      5      10      15
Asp Val Pro Glu Leu Gln Val Ala Val Phe Thr Phe Leu Phe Leu Ala
      20      25      30
Tyr Leu Leu Ser Ile Leu Gly Asn Leu Thr Ile Leu Ile Leu Thr Leu
      35      40      45
Leu Asp Ser His Leu Gln Thr Pro Met Tyr Phe Phe Leu Arg Asn Phe
      50      55      60
Ser Phe Leu Glu Ile Ser Phe Thr Asn Ile Phe Ile Pro Arg Val Leu
65      70      75      80
Ile Ser Ile Thr Thr Gly Asn Lys Ser Ile Ser Phe Ala Gly Cys Phe
      85      90      95
Thr Gln Tyr Phe Phe Ala Met Phe Leu Gly Ala Thr Glu Phe Tyr Leu
      100      105      110
Leu Ala Ala Met Ser Tyr Asp Arg Tyr Val Ala Ile Cys Lys Leu Met
      115      120      125
Thr Met His
130

```

<210> 1909

<211> 311

<212> PRT

<213> Unknown (H38g827 protein)

<220>

<223> Synthetic construct

<400> 1909

```

Met Glu Ile Lys Asn Tyr Ser Ser Ser Thr Ser Gly Phe Ile Leu Leu
 1      5      10      15
Gly Leu Ser Ser Asn Pro Gln Leu Gln Lys Pro Leu Phe Ala Ile Phe
      20      25      30
Leu Ile Met Tyr Leu Leu Ala Ala Val Gly Asn Val Leu Ile Ile Pro
      35      40      45

```


Ala Ile Tyr Ser Asp Pro Arg Leu His Thr Pro Met Tyr Phe Phe Leu
 50 55 60
 Ser Asn Leu Ser Phe Met Asp Ile Cys Phe Thr Thr Val Ile Val Pro
 65 70 75 80
 Lys Met Leu Val Asn Phe Leu Ser Glu Thr Lys Val Ile Ser Tyr Val
 85 90 95
 Gly Cys Leu Ala Gln Met Tyr Phe Phe Met Ala Phe Gly Asn Thr Asp
 100 105 110
 Ser Tyr Leu Leu Ala Ser Met Ala Ile Asp Arg Leu Val Ala Ile Cys
 115 120 125
 Asn Pro Leu His Tyr Asp Val Val Met Lys Pro Arg His Cys Leu Leu
 130 135 140
 Met Leu Leu Gly Ser Cys Ser Ile Ser His Leu His Ser Leu Phe Arg
 145 150 155 160
 Val Leu Leu Met Ser Arg Leu Ser Phe Cys Ala Ser His Ile Ile Lys
 165 170 175
 His Phe Phe Cys Asp Thr Gln Pro Val Leu Lys Leu Ser Cys Ser Asp
 180 185 190
 Thr Ser Ser Ser Gln Met Val Val Met Thr Glu Thr Leu Ala Val Ile
 195 200 205
 Val Thr Pro Phe Leu Cys Ile Ile Phe Ser Tyr Leu Arg Ile Met Val
 210 215 220
 Thr Val Leu Arg Ile Pro Ser Ala Ala Gly Lys Trp Lys Ala Phe Ser
 225 230 235 240
 Thr Cys Gly Ser His Leu Thr Ala Val Ala Leu Phe Tyr Gly Ser Ile
 245 250 255
 Ile Tyr Val Tyr Phe Arg Pro Leu Ser Met Tyr Ser Val Val Arg Asp
 260 265 270
 Arg Val Ala Thr Val Met Tyr Thr Val Val Thr Pro Met Leu Asn Pro
 275 280 285
 Phe Ile Tyr Ser Leu Arg Asn Lys Asp Met Lys Arg Gly Leu Lys Lys
 290 295 300
 Leu Gln Asp Arg Ile Tyr Arg
 305 310

<210> 1910

<211> 313

<212> PRT

<213> Unknown (H38g828 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(313)

<223> Xaa = Any Amino Acid

<400> 1910

Met Pro Asn Lys Ile Val Val Thr Glu Phe Phe Leu Thr Arg Pro Asp
 1 5 10 15
 Gly Leu Gln Lys Ser Phe Gln Val Ala Val Phe Leu Leu Pro Asp Ala
 20 25 30
 Cys His Thr Leu Xaa Leu Ser Leu Gly Thr Xaa Ile Ile Ile Thr Met
 35 40 45
 Thr Leu Leu Asp Thr Arg Met Gln Thr Ser Met Tyr Leu Phe Leu Gln
 50 55 60
 Asn Leu Ser Cys Leu Glu Ile Trp Phe Gln Thr Val Ile Val Pro Lys
 65 70 75 80
 Met Leu Leu Asn Ile Ala Met Gly Thr Lys Thr Val Ser Phe Ala Gly
 85 90 95
 Cys Ile Thr Gln Asp Phe Phe His Ile Phe Leu Gly Ala Thr Glu Phe

```

      100      105      110
Phe Leu Leu Thr Ala Met Ala Tyr Asp Gln Tyr Ile Ala Ile Cys Lys
      115      120      125
Pro Leu His Tyr Pro Met Leu Ile Ser Ser Arg Val Cys Thr Gln Leu
      130      135      140
Ile Leu Thr Cys Trp Leu Leu Gly Phe Ser Phe Ile Ile Met Pro Val
145      150      155      160
Ile Leu Thr Ser Gln Leu Pro Phe Cys Asp Thr His Ile Lys His Phe
      165      170      175
Phe Cys Asp Tyr Thr Pro Leu Met Glu Val Val Cys Ser Gly Pro Lys
      180      185      190
Val Leu Glu Met Val Asp Phe Thr Leu Ala Leu Val Ala Leu Phe Gly
      195      200      205
Thr Leu Val Leu Ile Thr Leu Ser Tyr Val Gln Ile Ile Gln Thr Ile
      210      215      220
Val Arg Ile Pro Ala Val Gln Glu Arg Lys Lys Ala Phe Ser Thr Cys
225      230      235      240
Ser Ser His Val Ile Met Val Thr Met Cys Tyr Asp Ser Cys Phe Phe
      245      250      255
Met Tyr Val Lys Pro Ser Pro Gly Lys Trp Val Asp Val Asn Lys Gly
      260      265      270
Val Ser Leu Ile Asn Thr Ile Ile Ala Pro Leu Leu Asn Pro Phe Ile
      275      280      285
Cys Thr Leu Arg Asn Gln Gln Val Lys Gln Val Met Lys Asp Leu Val
      290      295      300
Arg Lys Met Thr Leu Ser Glu Asn Lys
305      310

```

<210> 1911

<211> 317

<212> PRT

<213> Unknown (H38g829 protein)

<220>

<223> Synthetic construct

<400> 1911

```

Met Asn Ser Glu Asn Leu Thr Arg Ala Ala Val Ala Pro Ala Glu Phe
 1      5      10      15
Val Leu Leu Gly Ile Thr Asn Arg Trp Asp Leu Arg Val Ala Leu Phe
      20      25      30
Leu Thr Cys Leu Pro Val Tyr Leu Val Ser Leu Leu Gly Asn Met Gly
      35      40      45
Met Ala Leu Leu Ile Arg Met Asp Ala Arg Leu His Thr Pro Met Tyr
      50      55      60
Phe Phe Leu Ala Asn Leu Ser Leu Leu Asp Ala Cys Tyr Ser Ser Ala
65      70      75      80
Ile Gly Pro Lys Met Leu Val Asp Leu Leu Leu Pro Arg Ala Thr Ile
      85      90      95
Pro Tyr Thr Ala Cys Ala Leu Gln Met Phe Val Phe Ala Gly Leu Ala
      100      105      110
Asp Thr Glu Cys Cys Leu Leu Ala Ala Met Ala Tyr Asp Arg Tyr Val
      115      120      125
Ala Ile Arg Asn Pro Leu Leu Tyr Thr Thr Ala Met Ser Gln Arg Leu
      130      135      140
Cys Leu Ala Leu Leu Gly Ala Ser Gly Leu Gly Gly Ala Val Ser Ala
145      150      155      160
Phe Val His Thr Thr Leu Thr Phe Arg Leu Ser Phe Cys Arg Ser Arg
      165      170      175
Lys Ile Asn Ser Phe Phe Cys Asp Ile Pro Pro Leu Leu Ala Ile Ser
      180      185      190

```

Cys Ser Asp Thr Ser Leu Asn Glu Leu Leu Leu Phe Ala Ile Cys Gly
 195 200 205
 Phe Ile Gln Thr Ala Thr Val Leu Ala Ile Thr Val Ser Tyr Gly Phe
 210 215 220
 Ile Ala Gly Ala Val Ile His Met Arg Ser Val Glu Gly Ser Arg Arg
 225 230 235 240
 Ala Ala Ser Thr Gly Gly Ser His Leu Thr Ala Val Ala Met Met Tyr
 245 250 255
 Gly Thr Leu Ile Phe Met Tyr Leu Arg Pro Ser Ser Ser Tyr Ala Leu
 260 265 270
 Asp Thr Asp Lys Met Ala Ser Val Phe Tyr Thr Leu Val Ile Pro Ser
 275 280 285
 Leu Asn Pro Leu Ile Tyr Ser Leu Arg Asn Lys Glu Val Lys Glu Ala
 290 295 300
 Leu Arg Gln Thr Trp Ser Arg Phe His Cys Pro Gly Gln
 305 310 315

<210> 1912

<211> 316

<212> PRT

<213> Unknown (H38g830 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(316)

<223> Xaa = Any Amino Acid

<400> 1912

Met Val Ile Leu Ser Trp Glu Asn Gln Thr Met Arg Val Glu Phe Val
 1 5 10 15
 Leu Gln Gly Phe Ser Ser Ile Arg Gln Leu Asn Ile Phe Leu Phe Met
 20 25 30
 Ile Ile Leu Val Phe Tyr Ile Leu Thr Val Ser Gly Asn Ile Leu Ile
 35 40 45
 Val Leu Leu Val Leu Val Arg His His Leu His Thr Pro Met Tyr Phe
 50 55 60
 Leu Leu Val Asn Leu Ser Cys Leu Glu Ile Trp Tyr Thr Ser Asn Ile
 65 70 75 80
 Ile Pro Lys Met Leu Leu Ile Ile Ala Glu Xaa Lys Thr Ile Ser
 85 90 95
 Val Ala Gly Trp Leu Ala Gln Phe Tyr Phe Phe Gly Ser Leu Ala Ala
 100 105 110
 Thr Glu Cys Leu Leu Leu Thr Val Met Ser Tyr Asp Arg Tyr Leu Ala
 115 120 125
 Ile Cys Gln Pro Leu Cys Tyr Arg Val Leu Met Thr Gly Pro Leu Cys
 130 135 140
 Ile Arg Leu Ala Ala Gly Ser Trp Phe Cys Cys Phe Leu Leu Thr Ala
 145 150 155 160
 Ile Thr Met Val Leu Leu Cys Arg Leu Thr Phe Cys Gly Pro Tyr Glu
 165 170 175
 Thr Asp His Phe Phe Cys Asp Phe Thr Pro Leu Val His Leu Ser Cys
 180 185 190
 Met Asp Thr Ser Val Thr Glu Thr Ile Ala Phe Ala Thr Ser Ser Ala
 195 200 205
 Val Thr Leu Ile Pro Phe Leu Leu Ile Val Ala Ser Tyr Ser Cys Val
 210 215 220
 Leu Ser Ala Ile Leu Arg Ile Pro Ser Cys Thr Gly Gln Lys Lys Ala
 225 230 235 240
 Phe Ser Thr Cys Ser Ser His Leu Thr Val Val Ile Val Phe Tyr Gly

| | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|
| | | | | 245 | | | | 250 | | | | | 255 | | | | |
| Thr | Leu | Ile | Ala | Thr | Tyr | Leu | Val | Pro | Ser | Ala | Asn | Ser | Ser | Gln | Leu | | |
| | | | 260 | | | | | 265 | | | | | 270 | | | | |
| Leu | Cys | Lys | Gly | Ser | Ser | Leu | Leu | Tyr | Ile | Ile | Leu | Thr | Pro | Met | Phe | | |
| | | 275 | | | | | 280 | | | | | 285 | | | | | |
| Asn | Pro | Ile | Ile | Tyr | Ser | Leu | Arg | Asn | Arg | Asp | Ile | His | Glu | Ala | Leu | | |
| | 290 | | | | | 295 | | | | | 300 | | | | | | |
| Lys | Lys | Cys | Leu | Arg | Lys | Lys | Ser | Gly | Val | Cys | Leu | | | | | | |
| 305 | | | | 310 | | | | | | 315 | | | | | | | |

<210> 1913

<211> 309

<212> PRT

<213> Unknown (H38g831 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(309)

<223> Xaa = Any Amino Acid

<400> 1913

| | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|
| Glu | Xaa | Met | Gly | Thr | Ser | Asn | Asn | Val | Thr | Glu | Phe | Val | Leu | Pro | Gly | | |
| 1 | | | | 5 | | | | 10 | | | | | 15 | | | | |
| Leu | Ser | Gln | Asp | Pro | Asp | Val | Gln | Lys | Ala | Leu | Phe | Val | Met | Phe | Leu | | |
| | | 20 | | | | | 25 | | | | | 30 | | | | | |
| Leu | Thr | Tyr | Asn | Val | Thr | Met | Val | Gly | Asn | Leu | Leu | Ile | Val | Val | Thr | | |
| | 35 | | | | | 40 | | | | | | 45 | | | | | |
| Ile | Ile | Ala | Ile | Ala | Ser | Leu | Asp | Ser | Pro | Val | Ser | Phe | Phe | Leu | Ala | | |
| | 50 | | | | | 55 | | | | | 60 | | | | | | |
| Cys | Leu | Ser | Phe | Ile | Asp | Ala | Val | Tyr | Ser | Thr | Ser | Phe | Ser | Pro | Lys | | |
| 65 | | | | 70 | | | | 75 | | | | | | 80 | | | |
| Leu | Met | Ile | Asp | Leu | Leu | Cys | Asp | Lys | Lys | Thr | Val | Ser | Phe | Leu | Ala | | |
| | | | 85 | | | | | 90 | | | | | 95 | | | | |
| Cys | Met | Gly | Gln | Leu | Phe | Ile | Asn | Tyr | Pro | Phe | Gly | Gly | Ile | Glu | Val | | |
| | | 100 | | | | | | 105 | | | | | 110 | | | | |
| Phe | Leu | Leu | Val | Gly | Met | Ala | Cys | Asp | His | Tyr | Val | Asp | Ile | Cys | Lys | | |
| | 115 | | | | | 120 | | | | | | 125 | | | | | |
| Leu | Leu | His | Tyr | Leu | Thr | Ile | Met | Asn | Trp | Gln | Val | Cys | Ile | Leu | Leu | | |
| | 130 | | | | | 135 | | | | | 140 | | | | | | |
| Phe | Met | Val | Ala | Val | Thr | Gly | Gly | Phe | Leu | His | Ser | Met | Phe | Gln | Ile | | |
| 145 | | | | | 150 | | | | | 155 | | | | | 160 | | |
| Val | Val | Val | Tyr | Ser | Leu | Pro | Phe | Cys | Gly | Pro | Asn | Val | Ile | Asp | His | | |
| | | | 165 | | | | | 170 | | | | | | 175 | | | |
| Phe | Cys | Asp | Met | Tyr | Pro | Leu | Leu | Glu | Met | Val | Cys | Thr | Asp | Thr | Tyr | | |
| | | 180 | | | | | | 185 | | | | | 190 | | | | |
| Phe | Ile | Gly | Leu | Thr | Val | Ile | Ala | Asn | Gly | Gly | Ala | Val | Cys | Met | Val | | |
| | 195 | | | | | | 200 | | | | | 205 | | | | | |
| Ile | Phe | Ile | Leu | Leu | Leu | Ile | Ser | Tyr | Gly | Val | Ile | Leu | Asn | Ser | Leu | | |
| | 210 | | | | | 215 | | | | | 220 | | | | | | |
| Lys | Thr | Tyr | Ser | Gln | Glu | Gly | Gly | His | Lys | Ala | Leu | Ser | Thr | Cys | Ser | | |
| 225 | | | | 230 | | | | 235 | | | | | | 240 | | | |
| Ser | Asn | Ile | Thr | Val | Val | Ser | Leu | Phe | Phe | Asp | Pro | Cys | Ile | Phe | Ile | | |
| | | | 245 | | | | | 250 | | | | | | 255 | | | |
| Tyr | Val | Arg | Pro | Asp | Ser | Asn | Phe | Pro | Ile | Asp | Lys | Phe | Met | Thr | Val | | |
| | | 260 | | | | | | 265 | | | | | 270 | | | | |
| Phe | Tyr | Thr | Ile | Ile | Thr | Pro | Met | Leu | Asn | Pro | Leu | Ile | Tyr | Thr | Leu | | |
| | 275 | | | | | 280 | | | | | | 285 | | | | | |
| Arg | Asn | Leu | Glu | Val | Arg | Ile | Ala | Val | Lys | Asn | Leu | Trp | Cys | Lys | Asn | | |
| | 290 | | | | | 295 | | | | | 300 | | | | | | |

Xaa Thr Ile Val Arg
305

<210> 1914

<211> 318

<212> PRT

<213> Unknown (H38g832 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(318)

<223> Xaa = Any Amino Acid

<400> 1914

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Asp | Arg | Val | Asn | Asn | Ser | Ala | Val | Ser | Lys | Phe | Val | Leu | Ile | Gly |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |
| Leu | Ser | Ser | Ser | Trp | Glu | Met | His | Pro | Phe | Leu | Phe | Trp | Phe | Phe | Ser |
| | | 20 | | | | | | 25 | | | | | 30 | | |
| Val | Phe | Tyr | Met | Gly | Ile | Ile | Leu | Glu | Asn | Leu | Phe | Ile | Val | Phe | Thr |
| | | 35 | | | | | 40 | | | | | 45 | | | |
| Val | Ile | Ile | Asp | Ser | His | Leu | Asn | Ser | Pro | Val | Tyr | Cys | Leu | Leu | Ala |
| | 50 | | | | | 55 | | | | | 60 | | | | |
| Asn | Ile | Tyr | Leu | Leu | Asp | Leu | Val | Phe | Ser | Tyr | Ser | Ser | Asp | Phe | Phe |
| 65 | | | | | 70 | | | | 75 | | | | | | 80 |
| Thr | Asn | Cys | Ser | Ile | Ile | Ser | Phe | Pro | Arg | Cys | Met | Ile | Gln | Ile | Phe |
| | | | 85 | | | | | 90 | | | | | 95 | | |
| Phe | Ile | Cys | Val | Met | Arg | Lys | Ile | Glu | Met | Val | Leu | Leu | Ile | Thr | Met |
| | | | 100 | | | | | 105 | | | | | 110 | | |
| Ala | Xaa | Ser | Arg | Tyr | Thr | Ala | Ile | Cys | Lys | Pro | Pro | His | Tyr | Leu | Thr |
| | | 115 | | | | | 120 | | | | | 125 | | | |
| Thr | Met | Asn | Pro | Lys | Met | Cys | Val | Ser | Leu | Leu | Glu | Ala | Ser | Trp | Ile |
| | 130 | | | | | 135 | | | | | 140 | | | | |
| Val | Arg | Ile | Ile | His | Ala | Val | Ser | Gln | Phe | Val | Phe | Ala | Ile | Asn | Leu |
| 145 | | | | | 150 | | | | | 155 | | | | | 160 |
| Pro | Phe | Cys | Gly | Pro | Asn | Arg | Val | Gly | Ser | Phe | His | Cys | Asp | Phe | Pro |
| | | | 165 | | | | | 170 | | | | | 175 | | |
| Tyr | Val | Met | Lys | Leu | Ala | Cys | Val | Asp | Thr | Tyr | Lys | Leu | Glu | Val | Val |
| | | 180 | | | | | | 185 | | | | | 190 | | |
| Val | Thr | Ala | Asn | Ser | Gly | Leu | Ile | Ser | Ile | Ala | Thr | Cys | Phe | Leu | Leu |
| | | 195 | | | | | 200 | | | | | 205 | | | |
| Ile | Ile | Ser | Tyr | Ile | Phe | Ile | Ser | Val | Thr | Val | Xaa | Asn | Pro | Ser | Ser |
| | 210 | | | | | 215 | | | | | 220 | | | | |
| Gly | Asp | Leu | Ser | Lys | Ala | Phe | Val | Ser | Cys | Ser | Asp | His | Ile | Thr | Val |
| 225 | | | | | 230 | | | | | 235 | | | | | 240 |
| Gly | Ile | Leu | Phe | Phe | Met | Pro | Cys | Ile | Phe | Leu | Tyr | Val | Xaa | Pro | Leu |
| | | | 245 | | | | | | 250 | | | | | 255 | |
| Pro | Lys | Thr | Thr | His | Asp | Xaa | Tyr | Leu | Phe | Ile | Val | Pro | Leu | Leu | Ser |
| | | 260 | | | | | | 265 | | | | | 270 | | |
| Pro | Leu | Ser | Arg | Ile | Tyr | Thr | Leu | Arg | Asn | Lys | Asp | Met | Asn | Val | Ser |
| | | 275 | | | | | 280 | | | | | 285 | | | |
| Met | Glu | Arg | Leu | Gly | Lys | Trp | Ile | Ala | Gly | Ser | Ser | Arg | Met | Ser | Xaa |
| | 290 | | | | | 295 | | | | | 300 | | | | |
| Xaa | Met | Val | Leu | Ser | Arg | Val | Gln | Asp | Asp | Ser | Val | Ser | Pro | | |
| 305 | | | | | 310 | | | | | 315 | | | | | |

<210> 1915

<211> 309

<212> PRT

<213> Unknown (H38g833 protein)

<220>

<223> Synthetic construct

<400> 1915

```

Met Glu Gly Ile Asn Lys Thr Ala Lys Met Gln Phe Phe Phe Arg Pro
 1           5           10           15
Phe Ser Pro Asp Pro Glu Val Gln Met Leu Ile Phe Val Val Phe Leu
          20           25           30
Met Met Tyr Leu Thr Ser Leu Gly Gly Asn Ala Thr Ile Ala Val Ile
          35           40           45
Val Gln Ile Asn His Ser Leu His Thr Pro Met Tyr Phe Phe Leu Ala
          50           55           60
Asn Leu Ala Val Leu Glu Ile Phe Tyr Thr Ser Ser Ile Thr Pro Leu
          65           70           75           80
Ala Leu Ala Asn Leu Ser Met Gly Lys Thr Pro Val Ser Ile Thr
          85           90           95
Gly Cys Gly Thr Gln Met Phe Phe Phe Val Phe Leu Gly Gly Ala Asp
          100          105          110
Cys Val Leu Leu Val Val Met Ala Tyr Asp Arg Phe Ile Ala Ile Cys
          115          120          125
His Pro Leu Arg Tyr Arg Leu Ile Met Ser Trp Ser Leu Cys Val Glu
          130          135          140
Leu Leu Val Gly Ser Leu Val Leu Gly Phe Leu Leu Ser Leu Pro Leu
          145          150          155          160
Thr Ile Leu Ile Phe His Leu Pro Phe Cys His Asn Asp Glu Ile Tyr
          165          170          175
His Phe Tyr Cys Asp Met Pro Ala Val Met Arg Leu Ala Cys Ala Asp
          180          185          190
Thr Arg Val His Lys Thr Ala Leu Tyr Ile Ile Ser Phe Ile Val Leu
          195          200          205
Ser Ile Pro Leu Ser Leu Ile Ser Ile Ser Tyr Val Phe Ile Val Val
          210          215          220
Ala Ile Leu Arg Ile Arg Ser Ala Glu Gly Arg Gln Gln Ala Tyr Ser
          225          230          235          240
Thr Cys Ser Ser His Ile Leu Val Val Leu Leu Gln Tyr Gly Cys Thr
          245          250          255
Ser Phe Ile Tyr Leu Ser Pro Ser Ser Ser Tyr Ser Pro Glu Met Gly
          260          265          270
Arg Val Val Ser Val Ala Tyr Thr Phe Ile Thr Pro Ile Leu Asn Pro
          275          280          285
Leu Ile Tyr Ser Leu Arg Asn Lys Glu Leu Lys Asp Ala Leu Arg Lys
          290          295          300
Ala Leu Arg Lys Phe
          305

```

<210> 1916

<211> 329

<212> PRT

<213> Unknown (H38g834 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(329)

<223> Xaa = Any Amino Acid

<400> 1916

```

Asp Ser Val Asp Gln Val Asn Asp Ser Leu Val Thr Glu Phe Val Leu
 1           5           10           15

```

Leu Gly Leu Ala Gln Ser Leu Glu Met Gln Phe Phe Leu Phe Leu Phe
 20 25 30
 Phe Ser Leu Phe Tyr Val Gly Ile Ile Leu Gly Asn Leu Phe Ile Val
 35 40 45
 Phe Thr Val Ile Phe Asp Pro His Leu His Ser Pro Met Tyr Ile Leu
 50 55 60
 Leu Ala Asn Leu Ser Leu Ile Asp Leu Ser Leu Ser Ser Thr Thr Val
 65 70 75 80
 Pro Arg Leu Ile Tyr Asp Leu Phe Thr Asp Cys Lys Val Ile Ser Phe
 85 90 95
 His Asn Cys Met Ile Gln Lys Phe Phe Ile His Val Thr Gly Gly Val
 100 105 110
 Glu Met Val Leu Leu Ile Val Met Ala Tyr Asp Arg Tyr Thr Ala Ile
 115 120 125
 Cys Lys Pro Leu His Tyr Pro Thr Ile Met Asn Pro Lys Met Cys Met
 130 135 140
 Phe Leu Val Ala Ala Ala Trp Val Ile Gly Val Ile His Ala Met Ser
 145 150 155 160
 Gln Phe Val Phe Val Ile Asn Leu Pro Phe Cys Gly Pro Asn Asn Val
 165 170 175
 Gly Ser Phe Tyr Cys Asp Phe Pro Arg Val Ile Lys Leu Ala Cys Met
 180 185 190
 Asp Thr Tyr Gly Leu Glu Phe Val Thr Ala Asn Ser Gly Phe Ile
 195 200 205
 Ser Met Gly Thr Phe Phe Phe Leu Ile Val Ser Tyr Ile Phe Ile Leu
 210 215 220
 Val Thr Val Gln Arg His Ser Ser Asn Asp Leu Ser Lys Ala Phe Phe
 225 230 235 240
 Thr Ser Xaa Ala His Ile Thr Val Val Val Leu Phe Phe Ala Pro Cys
 245 250 255
 Met Phe Leu Tyr Val Trp Pro Phe Pro Thr Lys Ser Leu Asp Lys Phe
 260 265 270
 Phe Ala Ile Met Asn Phe Val Val Thr Pro Val Leu Asn Pro Ala Ile
 275 280 285
 Tyr Thr Leu Arg Asn Lys Asp Met Lys Phe Ala Met Arg Arg Leu Asn
 290 295 300
 Gln His Ile Leu Asn Ser Met Glu Met Thr Xaa His Ile Trp Leu Met
 305 310 315 320
 Arg Ala Gln Asp Lys Cys His Gly Pro
 325

<210> 1917

<211> 257

<212> PRT

<213> Unknown (H38g835 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(257)

<223> Xaa = Any Amino Acid

<400> 1917

Ser Met Tyr Phe Phe Leu Thr Asn Phe Ala Gly Leu Glu Ile Phe Tyr
 1 5 10 15
 Phe Phe Thr Ile Ala Pro Leu Thr Leu Ala Asn Val Leu Pro Met Gly
 20 25 30
 Arg Asn Leu Ile Ser Leu Pro Gly Cys Gly Gly Gln Met Phe Phe Phe
 35 40 45
 Ile Phe Leu Gly Arg Ala Asp Cys Ile Leu Leu Ala Val Met Ala Phe

```

      50              55              60
Asp Trp Phe Val Ala Ile Cys Cys Pro Leu Cys Tyr Gly Leu Ile Met
65              70              75              80
Ser Trp Arg Leu Cys Val Gln Leu Thr Leu Gly Ser Leu Leu Leu Gly
      85              90              95
Phe Phe Leu Ala Met Gln Leu Thr Val Leu Ile Phe Gln Leu Pro Leu
      100              105              110
Cys Ser Ser Lys Glu Ile Ser Thr Phe Tyr Cys Asp Val Leu Pro Val
      115              120              125
Met Arg Leu Ala Cys Ala Asp Thr Trp Val His Glu Ala Thr Met Ser
      130              135              140
Met Val Ser Thr Thr Phe Leu Thr Val Pro Phe Leu Leu Ile Thr Leu
145              150              155              160
Ser Tyr Val Ser Ile Met Ala Ala Ile Leu Lys Ile Cys Ser Ala Glu
      165              170              175
Gly Arg His Lys Ala Phe Ser Thr Cys Ser Ser His Leu Thr Val Val
      180              185              190
Leu Leu Gln Asp Xaa Cys Thr Arg Leu Ala Phe Leu Cys Pro Ser Ser
      195              200              205
Ser Tyr Tyr Pro Glu Arg Gly Gln Ala Val Ser Val Val Tyr Thr Phe
      210              215              220
Ile Thr Pro Val Leu Asn Pro Leu Ile Tyr Ser Met Arg Asn Thr Glu
225              230              235              240
Leu Lys Asp Ala Leu Lys Arg Ala Met Thr Arg Val Pro Leu Leu Xaa
      245              250              255
Thr

```

<210> 1918

<211> 305

<212> PRT

<213> Unknown (H38g836 protein)

<220>

<223> Synthetic construct

<400> 1918

```

Met Val Thr Glu Phe Ile Phe Leu Gly Leu Ser Asp Ser Gln Glu Leu
1      5      10      15
Gln Thr Phe Leu Phe Met Leu Phe Phe Val Phe Tyr Gly Gly Ile Val
      20      25      30
Phe Gly Asn Leu Leu Ile Val Ile Thr Val Val Ser Asp Ser His Leu
      35      40      45
His Ser Pro Met Tyr Phe Leu Ala Asn Leu Ser Leu Ile Asp Leu
      50      55      60
Ser Leu Ser Ser Val Thr Ala Pro Lys Met Ile Thr Asp Phe Phe Ser
65      70      75      80
Gln Arg Lys Val Ile Ser Phe Lys Gly Cys Leu Val Gln Ile Phe Leu
      85      90      95
Leu His Phe Phe Gly Gly Ser Glu Met Val Ile Leu Ile Ala Met Gly
      100      105      110
Phe Asp Arg Tyr Ile Ala Ile Cys Lys Pro Leu His Tyr Thr Thr Ile
      115      120      125
Met Cys Gly Asn Ala Cys Val Gly Ile Met Ala Val Ala Trp Gly Ile
      130      135      140
Gly Phe Leu His Ser Val Ser Gln Leu Ala Phe Ala Val His Leu Pro
145      150      155      160
Phe Cys Gly Pro Asn Glu Val Asp Ser Phe Tyr Cys Asp Leu Pro Arg
      165      170      175
Val Ile Lys Leu Ala Cys Thr Asp Thr Tyr Arg Leu Asp Ile Met Val
      180      185      190

```


Ile Ala Asn Ser Gly Val Leu Thr Val Cys Ser Phe Val Leu Leu Ile
 195 200 205
 Ile Ser Tyr Thr Ile Ile Leu Met Thr Ile Gln His Cys Pro Leu Asp
 210 215 220
 Lys Ser Ser Lys Ala Leu Ser Thr Leu Thr Ala His Ile Thr Val Val
 225 230 235 240
 Leu Leu Phe Phe Gly Pro Cys Val Phe Ile Tyr Ala Trp Pro Phe Pro
 245 250 255
 Ile Lys Ser Leu Asp Lys Phe Leu Ala Val Phe Tyr Ser Val Ile Thr
 260 265 270
 Pro Leu Leu Asn Pro Ile Ile Tyr Thr Leu Arg Asn Lys Asp Met Lys
 275 280 285
 Thr Ala Ile Arg Arg Leu Arg Lys Trp Asp Ala His Ser Ser Val Lys
 290 295 300
 Phe
 305

<210> 1919

<211> 318

<212> PRT

<213> Unknown (H38g837 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(318)

<223> Xaa = Any Amino Acid

<400> 1919

Met Asp Arg Val Asn Asn Ser Ala Val Ser Lys Phe Val Leu Ile Gly
 1 5 10 15
 Leu Ser Ser Ser Trp Glu Met His Leu Phe Leu Phe Trp Phe Phe Ser
 20 25 30
 Val Phe Tyr Met Gly Ile Ile Leu Glu Asn Leu Phe Ile Val Phe Thr
 35 40 45
 Val Ile Ile Asp Ser His Leu Asn Ser Pro Val Tyr Cys Leu Leu Ala
 50 55 60
 Asn Ile Tyr Leu Leu Asp Leu Val Phe Ser Tyr Ser Ser Asp Phe Phe
 65 70 75 80
 Thr Asn Cys Ser Ile Ile Ser Phe Pro Arg Cys Met Ile Gln Ile Phe
 85 90 95
 Phe Ile Cys Val Met Arg Lys Ile Glu Met Val Leu Leu Ile Thr Met
 100 105 110
 Ala Xaa Ser Arg Tyr Thr Ala Ile Cys Lys Pro Pro His Tyr Leu Thr
 115 120 125
 Thr Met Asn Pro Lys Met Cys Val Ser Leu Leu Glu Ala Ser Trp Ile
 130 135 140
 Val Arg Ile Ile His Ala Val Ser Gln Phe Val Phe Ala Ile Asn Leu
 145 150 155 160
 Pro Phe Cys Gly Pro Asn Arg Val Gly Ser Phe His Cys Asp Phe Pro
 165 170 175
 Tyr Val Met Lys Leu Ala Cys Val Asp Thr Tyr Lys Leu Glu Val Val
 180 185 190
 Val Thr Ala Asn Ser Gly Leu Ile Ser Ile Ala Thr Cys Phe Leu Leu
 195 200 205
 Ile Ile Ser Tyr Ile Phe Ile Ser Val Thr Val Xaa Asn Pro Ser Ser
 210 215 220
 Gly Asp Leu Ser Lys Ala Phe Val Ser Cys Ser Asp His Ile Thr Val
 225 230 235 240
 Gly Ile Leu Phe Phe Met Pro Cys Ile Phe Leu Tyr Val Xaa Pro Leu

| | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|
| | | | | 245 | | | | | 250 | | | | | 255 | | | |
| Pro | Lys | Thr | Thr | His | Asp | Xaa | Tyr | Leu | Phe | Ile | Val | Pro | Leu | Leu | Ser | | |
| | | | 260 | | | | | 265 | | | | | 270 | | | | |
| Pro | Leu | Ser | Arg | Ile | Tyr | Thr | Leu | Arg | Asn | Lys | Asp | Met | Asn | Val | Ser | | |
| | | 275 | | | | | 280 | | | | | 285 | | | | | |
| Met | Glu | Arg | Leu | Gly | Lys | Trp | Ile | Ala | Gly | Ser | Ser | Arg | Met | Ser | Xaa | | |
| | 290 | | | | 295 | | | | | | 300 | | | | | | |
| Xaa | Met | Val | Leu | Ser | Arg | Val | Gln | Asp | Asp | Ser | Val | Ser | Pro | | | | |
| 305 | | | | 310 | | | | | | 315 | | | | | | | |

<210> 1920

<211> 328

<212> PRT

<213> Unknown (H38g838 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(328)

<223> Xaa = Any Amino Acid

<400> 1920

| | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|
| Leu | Ser | Ile | Cys | Phe | Phe | Leu | Cys | Ile | Phe | Ser | Ala | Asp | Ile | Xaa | Ser | | |
| 1 | | | | 5 | | | | 10 | | | | | 15 | | | | |
| Met | Leu | Ala | Met | Glu | Gln | Asn | Asn | Gly | Thr | Glu | Val | Thr | Glu | Phe | Ile | | |
| | | 20 | | | | | 25 | | | | | 30 | | | | | |
| Leu | Leu | Gly | Phe | Ala | Gly | Gln | His | Lys | Ser | Trp | His | Ile | Leu | Ser | Ile | | |
| | 35 | | | | 40 | | | | | | 45 | | | | | | |
| Ala | Phe | Leu | Ala | Ile | Tyr | Val | Val | Thr | Pro | Val | Gly | Asn | Ile | Gly | Met | | |
| | 50 | | | | 55 | | | | | 60 | | | | | | | |
| Ile | Leu | Leu | Ile | Lys | Ile | Asp | Ala | Ser | Leu | His | Ile | Pro | Met | Xaa | Ile | | |
| 65 | | | 70 | | | | | 75 | | | | | | 80 | | | |
| Phe | Leu | Gln | His | Leu | Ala | Phe | Val | Asp | Leu | Cys | Tyr | Thr | Ser | Ala | Ile | | |
| | | 85 | | | | | 90 | | | | | 95 | | | | | |
| Thr | Pro | Lys | Met | Leu | Lys | Asn | Phe | Val | Glu | Thr | Lys | Lys | Ser | Ile | Ser | | |
| | | 100 | | | | 105 | | | | | | 110 | | | | | |
| Cys | Ile | Gly | Cys | Met | Val | Gln | Leu | Val | Tyr | Gly | Thr | Phe | Ala | Thr | | | |
| | 115 | | | | 120 | | | | | 125 | | | | | | | |
| Ser | Asp | Cys | Tyr | Ile | Leu | Ala | Ala | Met | Ala | Val | Asp | Arg | Tyr | Val | Ala | | |
| | 130 | | | | 135 | | | | | 140 | | | | | | | |
| Phe | Cys | Asn | Pro | Leu | His | Tyr | Pro | Gly | Val | Met | Ser | Gln | Arg | Leu | Cys | | |
| 145 | | | | 150 | | | | 155 | | | | | | 160 | | | |
| Ile | Lys | Leu | Leu | Val | Ser | Ser | Tyr | Val | Met | Gly | Phe | Leu | Asn | Ala | Ser | | |
| | | 165 | | | | | | 170 | | | | | 175 | | | | |
| Ile | Asn | Ile | Ser | Phe | Thr | Phe | Ser | Leu | Asn | Phe | Cys | Lys | Ser | Lys | Thr | | |
| | 180 | | | | | | 185 | | | | | 190 | | | | | |
| Ile | Asn | His | Phe | Phe | Cys | Asp | Glu | Pro | Pro | Ile | Ile | Ala | Leu | Pro | Cys | | |
| | 195 | | | | 200 | | | | | | | 205 | | | | | |
| Ser | Asn | Ile | Asp | Leu | Asn | Ile | Met | Leu | Leu | Thr | Val | Phe | Val | Gly | Leu | | |
| | 210 | | | | 215 | | | | | 220 | | | | | | | |
| Asn | Leu | Met | Cys | Thr | Val | Met | Val | Val | Ile | Ile | Ser | Cys | Ile | Tyr | Val | | |
| 225 | | | 230 | | | | | | 235 | | | | | 240 | | | |
| Leu | Val | Ala | Ile | Leu | Arg | Ile | Ser | Ser | Ala | Ala | Gly | Lys | Lys | Lys | Ser | | |
| | | 245 | | | | | | 250 | | | | | 255 | | | | |
| Leu | Ser | Thr | Cys | Ala | Ser | His | Leu | Thr | Ala | Val | Thr | Ile | Phe | Tyr | Gly | | |
| | 260 | | | | | | 265 | | | | | 270 | | | | | |
| Val | Leu | Ser | Tyr | Met | Tyr | Leu | Cys | His | Arg | Ile | Asn | Glu | Ser | Gln | Lys | | |
| | 275 | | | | | 280 | | | | | 285 | | | | | | |
| Gln | Glu | Lys | Val | Ala | Ser | Val | Phe | Tyr | Gly | Ile | Ile | Ile | Pro | Met | Leu | | |
| | 290 | | | | 295 | | | | | 300 | | | | | | | |

Asn Pro Leu Ile Tyr Ser Gln Arg Asn Gln Asp Val Ile Glu Ala Ile
 305 310 315 320
 Lys Leu Thr Glu Lys Lys Tyr Phe
 325

<210> 1921
 <211> 338
 <212> PRT
 <213> Unknown (H38g839 protein)

<220>
 <223> Synthetic construct

<221> VARIANT
 <222> (1)...(338)
 <223> Xaa = Any Amino Acid

<400> 1921
 Met Ile Ser Phe Leu Val Pro Gly Leu Met Glu Glu Glu Asn Gln Arg
 1 5 10 15
 Gly Val Val His Phe His Phe His Phe Ser Thr Asp Leu Val Val
 20 25 30
 Ala Ser Phe Ile Ile Val Ala Leu Met Leu His Leu Arg Ser Leu Val
 35 40 45
 Gly His Phe Thr Phe Gly Pro Thr Val Trp Gln Asp Pro Phe Leu His
 50 55 60
 Ile Pro Met Tyr Leu Phe Leu Phe Ser Leu Ala Leu Thr Met Leu Glu
 65 70 75 80
 Ile Gly Tyr Ser Thr Asn Ile Ser Pro Pro Thr Leu Ala Thr Val Leu
 85 90 95
 Tyr Met Gly Lys Met Leu Ile Ser Leu Pro Gly Tyr Gly Thr Gln Met
 100 105 110
 Leu Phe Val Ile Leu Leu Arg Gly Ser Glu Cys Val Leu Leu Ala Val
 115 120 125
 Met Ala Tyr Asp Arg Tyr Ile Thr Ile Cys His Pro Phe Asn Tyr Asn
 130 135 140
 Leu Ile Met Ser Gly Xaa Leu Cys Gly Gln Met Thr Leu Gly Ser Leu
 145 150 155 160
 Arg Leu Gly Phe Leu Leu Ser Leu Phe Leu Thr Met Leu Ile Xaa His
 165 170 175
 Pro Pro Phe Cys Gly Leu Asp Glu Thr Tyr His Phe Phe Cys Asp Met
 180 185 190
 Pro Thr Ala Ser Arg Leu Val Cys Ala Asp Thr Thr Val His Glu Ser
 195 200 205
 Ala Leu Xaa Leu Pro Cys Gly His His His His Pro Leu Pro Ser Ser
 210 215 220
 Leu Ile Cys Leu Pro Tyr Gly Cys Leu Ala Ala Thr Ile Leu Arg Met
 225 230 235 240
 His Ser Ala Lys Arg Lys His Xaa Ala Phe Ser Thr Ser Ser Ser His
 245 250 255
 Leu Ile Val Val Leu Leu Lys Tyr Trp Cys Cys Ile Leu Ile Cys Leu
 260 265 270
 Cys Pro Ser Ser Ser Tyr Ser Pro Glu Glu Gly Trp Glu Val Ser Leu
 275 280 285
 Val His Met Phe Ile Leu Pro Val Trp Asn Pro Leu Ile Tyr Ser Val
 290 295 300
 Trp Asn Gln Asp Val Thr Asp Ala Val Glu Arg Leu Val Ala Arg Met
 305 310 315 320
 Ser Leu Val Leu Thr Ala Arg Asn Ile Pro Ser Xaa Lys Ile Phe Pro
 325 330 335
 Xaa Leu

<210> 1922
 <211> 329
 <212> PRT
 <213> Unknown (H38g840 protein)

<220>
 <223> Synthetic construct

<221> VARIANT
 <222> (1)...(329)
 <223> Xaa = Any Amino Acid

<400> 1922
 Asp Ser Val Asp Gln Val Asn Asp Ser Leu Val Thr Glu Phe Val Leu
 1 5 10 15
 Leu Gly Leu Ala Gln Ser Leu Glu Met Gln Phe Phe Leu Phe Leu Phe
 20 25 30
 Phe Ser Leu Phe Tyr Val Gly Ile Ile Leu Gly Asn Leu Phe Ile Val
 35 40 45
 Phe Thr Val Ile Phe Asp Pro His Leu His Ser Pro Met Tyr Ile Leu
 50 55 60
 Leu Ala Asn Leu Ser Leu Ile Asp Leu Ser Leu Ser Ser Thr Thr Val
 65 70 75 80
 Pro Arg Leu Ile Tyr Asp Leu Phe Thr Asp Cys Lys Val Ile Ser Phe
 85 90 95
 His Asn Cys Met Ile Gln Lys Phe Phe Ile His Val Thr Gly Gly Val
 100 105 110
 Glu Met Val Leu Leu Ile Val Met Ala Tyr Asp Arg Tyr Thr Ala Ile
 115 120 125
 Cys Lys Pro Leu His Tyr Pro Thr Ile Met Asn Pro Lys Met Cys Met
 130 135 140
 Phe Leu Val Ala Ala Ala Trp Val Ile Gly Val Ile His Ala Met Ser
 145 150 155 160
 Gln Phe Val Phe Val Ile Asn Leu Pro Phe Cys Gly Pro Asn Asn Val
 165 170 175
 Gly Ser Phe Tyr Cys Asp Phe Pro Arg Val Ile Lys Leu Ala Cys Met
 180 185 190
 Asp Thr Tyr Gly Leu Glu Phe Val Val Thr Ala Asn Ser Gly Phe Ile
 195 200 205
 Ser Met Gly Thr Phe Phe Phe Leu Ile Val Ser Tyr Ile Phe Ile Leu
 210 215 220
 Val Thr Val Gln Arg His Ser Ser Asn Asp Leu Ser Lys Ala Phe Phe
 225 230 235 240
 Thr Ser Xaa Ala His Ile Thr Val Val Val Leu Phe Phe Ala Pro Cys
 245 250 255
 Met Phe Leu Tyr Val Trp Pro Phe Pro Thr Lys Ser Leu Asp Lys Phe
 260 265 270
 Phe Ala Ile Met Asn Phe Val Val Thr Pro Val Leu Asn Pro Ala Ile
 275 280 285
 Tyr Thr Leu Arg Asn Lys Asp Met Lys Phe Ala Met Arg Arg Leu Asn
 290 295 300
 Gln His Ile Leu Asn Ser Met Glu Met Thr Xaa His Ile Trp Leu Met
 305 310 315 320
 Arg Ala Gln Asp Lys Cys His Gly Pro
 325

<210> 1923
 <211> 245
 <212> PRT

<213> Unknown (H38g841 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(245)

<223> Xaa = Any Amino Acid

<400> 1923

```

Met Gln Ser Glu His Leu Ala Glu Phe Ser Glu Phe Leu Ile Leu Ser
 1           5           10           15
Leu Ser Glu Ile Gln Asn Cys Ser Pro Phe Phe Gly Leu Phe Leu Ser
 20           25           30
Met Asn Leu Val Thr Val Leu Gly Asn Leu Leu Ile Ile Leu Ala Ile
 35           40           45
Ser Ser Asp Ser His Leu His Lys Pro Met Tyr Phe Leu Leu Ser Lys
 50           55           60
Leu Ser Met Ala Ala Ile Cys Phe Val Phe Thr Met Ile Gln Lys Met
 65           70           75           80
Met Val Asn Leu Arg Ala Gln Ser Lys Asp Ile Phe Thr Gln Pro Ser
 85           90           95
Gly Ser Pro Ile Pro Phe Xaa Met Cys Ser Leu Ile Arg Phe Leu Leu
 100          105          110
Ile Gln Gln Lys Ser Val Val Leu Ile Phe Glu Tyr Ser Arg Phe Xaa
 115          120          125
Phe Ser Tyr Leu Asn Leu Lys Met Xaa Thr Asn Tyr Ser Phe Val Xaa
 130          135          140
Ala Phe Gln Asn Asn Xaa Arg Gln Leu Cys Pro Phe Leu Asp Asn His
 145          150          155          160
His Thr Phe Phe Thr Leu Ile Asp Thr Gln Leu Leu Ile Ser His Gly
 165          170          175
Phe Ser Thr Gln Thr Thr Phe Ile Leu Ser Ser Tyr Ala Ser Gly Tyr
 180          185          190
Ala Thr Val Asp Ser Gln Cys Phe Ile Tyr Phe Leu Asn Met Met Ile
 195          200          205
Thr Ile Asn Leu Phe Val Arg Phe Lys Asn Ile Phe Met His Ser Ser
 210          215          220
Ile Ser Ile Asn Tyr Asn Tyr Tyr Phe Lys Lys Xaa Asn Lys Gly Gly
 225          230          235          240
Ile Tyr Glu Ile Tyr
 245

```

<210> 1924

<211> 305

<212> PRT

<213> Unknown (H38g842 protein)

<220>

<223> Synthetic construct

<400> 1924

```

Met Val Thr Glu Phe Ile Phe Leu Gly Leu Ser Asp Ser Gln Glu Leu
 1           5           10           15
Gln Thr Phe Leu Phe Met Leu Phe Phe Val Phe Tyr Gly Gly Ile Val
 20           25           30
Phe Gly Asn Leu Leu Ile Val Ile Thr Val Val Ser Asp Ser His Leu
 35           40           45
His Ser Pro Met Tyr Phe Leu Leu Ala Asn Leu Ser Leu Ile Asp Leu
 50           55           60
Ser Leu Ser Ser Val Thr Ala Pro Lys Met Ile Thr Asp Phe Phe Ser

```

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |
| Gln | Arg | Lys | Val | Ile | Ser | Phe | Lys | Gly | Cys | Leu | Val | Gln | Ile | Phe | Leu |
| | | | | 85 | | | | | 90 | | | | | 95 | |
| Leu | His | Phe | Phe | Gly | Gly | Ser | Glu | Met | Val | Ile | Leu | Ile | Ala | Met | Gly |
| | | | 100 | | | | | 105 | | | | | 110 | | |
| Phe | Asp | Arg | Tyr | Ile | Ala | Ile | Cys | Lys | Pro | Leu | His | Tyr | Thr | Thr | Ile |
| | | 115 | | | | | 120 | | | | | 125 | | | |
| Met | Cys | Gly | Asn | Ala | Cys | Val | Gly | Ile | Met | Ala | Val | Ala | Trp | Gly | Ile |
| | 130 | | | | | 135 | | | | | 140 | | | | |
| Gly | Phe | Leu | His | Ser | Val | Ser | Gln | Leu | Ala | Phe | Ala | Val | His | Leu | Pro |
| 145 | | | | | 150 | | | | | 155 | | | | | 160 |
| Phe | Cys | Gly | Pro | Asn | Glu | Val | Asp | Ser | Phe | Tyr | Cys | Asp | Leu | Pro | Arg |
| | | | | 165 | | | | | 170 | | | | | 175 | |
| Val | Ile | Lys | Leu | Ala | Cys | Thr | Asp | Thr | Tyr | Arg | Leu | Asp | Ile | Met | Val |
| | | | 180 | | | | | 185 | | | | | 190 | | |
| Ile | Ala | Asn | Ser | Gly | Val | Leu | Thr | Val | Cys | Ser | Phe | Val | Leu | Leu | Ile |
| | | 195 | | | | | 200 | | | | | 205 | | | |
| Ile | Ser | Tyr | Thr | Ile | Ile | Leu | Met | Thr | Ile | Gln | His | Arg | Pro | Leu | Asp |
| | 210 | | | | | 215 | | | | | 220 | | | | |
| Lys | Ser | Ser | Lys | Ala | Leu | Ser | Thr | Leu | Thr | Ala | His | Ile | Thr | Val | Val |
| 225 | | | | | 230 | | | | | 235 | | | | | 240 |
| Leu | Leu | Phe | Phe | Gly | Pro | Cys | Val | Phe | Ile | Tyr | Ala | Trp | Pro | Phe | Pro |
| | | | | 245 | | | | | 250 | | | | | 255 | |
| Ile | Lys | Ser | Leu | Asp | Lys | Phe | Leu | Ala | Val | Phe | Tyr | Ser | Val | Ile | Thr |
| | | | 260 | | | | | 265 | | | | | 270 | | |
| Pro | Leu | Leu | Asn | Pro | Ile | Ile | Tyr | Thr | Leu | Arg | Asn | Lys | Asp | Met | Lys |
| | | | 275 | | | | 280 | | | | | 285 | | | |
| Thr | Ala | Ile | Arg | Arg | Leu | Arg | Lys | Trp | Asp | Ala | His | Ser | Ser | Val | Lys |
| | 290 | | | | | 295 | | | | | 300 | | | | |
| Phe | | | | | | | | | | | | | | | |
| 305 | | | | | | | | | | | | | | | |

<210> 1925

<211> 309

<212> PRT

<213> Unknown (H38g843 protein)

<220>

<223> Synthetic construct

<400> 1925

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Ala | Ala | Gly | Asn | His | Ser | Thr | Val | Thr | Glu | Phe | Ile | Leu | Lys | Gly |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |
| Leu | Thr | Lys | Arg | Ala | Asp | Leu | Gln | Leu | Pro | Leu | Phe | Leu | Leu | Phe | Leu |
| | | | 20 | | | | | 25 | | | | | 30 | | |
| Gly | Ile | Tyr | Leu | Val | Thr | Ile | Val | Gly | Asn | Leu | Gly | Met | Ile | Thr | Leu |
| | | 35 | | | | | 40 | | | | | 45 | | | |
| Ile | Cys | Leu | Asn | Ser | Gln | Leu | His | Thr | Pro | Met | Tyr | Tyr | Phe | Leu | Ser |
| | 50 | | | | | 55 | | | | | 60 | | | | |
| Asn | Leu | Ser | Leu | Met | Asp | Leu | Cys | Tyr | Ser | Ser | Val | Ile | Thr | Pro | Lys |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |
| Met | Leu | Val | Asn | Phe | Val | Ser | Glu | Lys | Asn | Ile | Ile | Ser | Tyr | Ala | Gly |
| | | | 85 | | | | | | 90 | | | | | 95 | |
| Cys | Met | Ser | Gln | Leu | Tyr | Phe | Phe | Leu | Val | Phe | Val | Ile | Ala | Glu | Cys |
| | | | 100 | | | | | 105 | | | | | 110 | | |
| Tyr | Met | Leu | Thr | Val | Met | Ala | Tyr | Asp | Arg | Tyr | Val | Ala | Ile | Cys | His |
| | 115 | | | | | | 120 | | | | | 125 | | | |
| Pro | Leu | Leu | Tyr | Asn | Ile | Ile | Met | Ser | His | His | Thr | Cys | Leu | Leu | Leu |
| | 130 | | | | | 135 | | | | | 140 | | | | |
| Val | Ala | Val | Val | Tyr | Ala | Ile | Gly | Leu | Ile | Gly | Ser | Thr | Ile | Glu | Thr |
| 145 | | | | | 150 | | | | | 155 | | | | | 160 |

Gly Leu Met Leu Lys Leu Pro Tyr Cys Glu His Leu Ile Ser His Tyr
 165 170 175
 Phe Cys Asp Ile Leu Pro Leu Met Lys Leu Ser Cys Ser Ser Thr Tyr
 180 185 190
 Asp Val Glu Met Thr Val Phe Phe Ser Ala Gly Phe Asn Ile Ile Val
 195 200 205
 Thr Ser Leu Thr Val Leu Val Ser Tyr Thr Phe Ile Leu Ser Ser Ile
 210 215 220
 Leu Gly Ile Ser Thr Thr Glu Gly Arg Ser Lys Ala Phe Ser Thr Cys
 225 230 235 240
 Ser Ser His Leu Ala Ala Val Gly Met Phe Tyr Gly Ser Thr Ala Phe
 245 250 255
 Met Tyr Leu Lys Pro Ser Thr Ile Ser Ser Leu Thr Gln Glu Asn Val
 260 265 270
 Ala Ser Val Phe Tyr Thr Thr Val Ile Pro Met Leu Asn Pro Leu Ile
 275 280 285
 Tyr Ser Leu Arg Asn Lys Glu Val Lys Ala Ala Val Gln Lys Thr Leu
 290 295 300
 Arg Gly Lys Leu Phe
 305

<210> 1926

<211> 310

<212> PRT

<213> Unknown (H38g844 protein)

<220>

<223> Synthetic construct

<400> 1926

Met Ala Ala Lys Asn Ser Ser Val Thr Glu Phe Ile Leu Glu Gly Leu
 1 5 10 15
 Thr His Gln Pro Gly Leu Arg Ile Pro Leu Phe Phe Leu Phe Leu Gly
 20 25 30
 Phe Tyr Thr Val Thr Val Val Gly Asn Leu Gly Leu Ile Thr Leu Ile
 35 40 45
 Gly Leu Asn Ser His Leu His Thr Pro Met Tyr Phe Phe Leu Phe Asn
 50 55 60
 Leu Ser Leu Ile Asp Phe Cys Phe Ser Thr Thr Ile Thr Pro Lys Met
 65 70 75 80
 Leu Met Ser Phe Val Ser Arg Lys Asn Ile Ile Ser Phe Thr Gly Cys
 85 90 95
 Met Thr Gln Leu Phe Phe Phe Cys Phe Phe Val Val Ser Glu Ser Phe
 100 105 110
 Ile Leu Ser Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Asn Pro
 115 120 125
 Leu Leu Tyr Thr Val Thr Met Ser Cys Gln Val Cys Leu Leu Leu Leu
 130 135 140
 Leu Gly Ala Tyr Gly Met Gly Phe Ala Gly Ala Met Ala His Thr Gly
 145 150 155 160
 Ser Ile Met Asn Leu Thr Phe Cys Ala Asp Asn Leu Val Asn His Phe
 165 170 175
 Met Cys Asp Ile Leu Pro Leu Leu Glu Leu Ser Cys Asn Ser Ser Tyr
 180 185 190
 Met Asn Glu Leu Val Val Phe Ile Val Val Ala Val Asp Val Gly Met
 195 200 205
 Pro Ile Val Thr Val Phe Ile Ser Tyr Ala Leu Ile Leu Ser Ser Ile
 210 215 220
 Leu His Asn Ser Ser Thr Glu Gly Arg Ser Lys Ala Phe Ser Thr Cys
 225 230 235 240
 Ser Ser His Ile Ile Val Val Ser Leu Phe Phe Gly Ser Gly Ala Phe

```

                245                250                255
Met Tyr Leu Lys Pro Leu Ser Ile Leu Pro Leu Glu Gln Gly Lys Val
                260                265                270
Ser Ser Leu Phe Tyr Thr Ile Ile Val Pro Val Leu Asn Pro Leu Ile
                275                280                285
Tyr Ser Leu Arg Asn Lys Asp Val Lys Val Ala Leu Arg Arg Thr Leu
                290                295                300
Gly Arg Lys Ile Phe Ser
305                310

```

<210> 1927

<211> 157

<212> PRT

<213> Unknown (H38g845 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(157)

<223> Xaa = Any Amino Acid

<400> 1927

```

Met Gly Glu Ala Arg Asn Arg Thr Val Val Gln Glu Phe Ile Leu Glu
 1                5                10                15
Gly Phe Pro Ala Val Gln His Leu Gly Asn Val Leu Phe Leu Val His
                20                25                30
Leu Leu Ala Tyr Leu Ala Ser Ile Met Ala Asn Met Leu Ile Ile Thr
                35                40                45
Ile Thr Trp Ala Asp His His Leu Gln Thr Pro Met Tyr Phe Phe Leu
 50                55                60
Ser Ser Phe Ser Phe Cys Glu Cys Cys Phe Ile Thr Thr Val Ile Pro
65                70                75                80
Lys Leu Leu Val Ile Leu Leu Ser Gly Arg Ala Lys Ile Pro Leu Ser
                85                90                95
Thr Thr Leu Ser His Ala Val Pro Phe Ser Phe Leu Tyr Ser Trp Val
                100                105                110
Asn Ser Phe Ser Ser Leu Asn Gly Cys Asp Val Pro Leu Asp Xaa Tyr
                115                120                125
Leu Ala Ile Cys Lys Pro Leu His Tyr Ser Thr Ile Met Ser Leu Arg
 130                135                140
Thr Ser Phe His Lys Val Thr Ala Trp Leu Cys Pro Gly
145                150                155

```

<210> 1928

<211> 333

<212> PRT

<213> Unknown (H38g846 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(333)

<223> Xaa = Any Amino Acid

<400> 1928

```

Thr Asp Pro Gln Asn Leu Thr Thr Asp Val Ser Ile Phe Leu Val Leu
 1                5                10                15
Glu Leu Ser Glu Asp Pro Glu Leu Gln Pro Val Leu Ala Gly Leu Phe
                20                25                30

```


Leu Ser Met Cys Leu Val Met Val Leu Gly Asn Leu Leu Ile Ile Leu
 35 40 45
 Ala Val Ser Pro Asp Ser His Leu His Thr Pro Met Tyr Phe Phe Leu
 50 55 60
 Ser Asn Leu Ser Leu Pro Asp Ile Gly Phe Thr Ser Thr Met Val Pro
 65 70 75 80
 Lys Met Ile Val Asp Ile Gln Ser His Ser Arg Leu Ile Ser Tyr Ala
 85 90 95
 Gly Cys Leu Thr Gln Met Ser Leu Phe Ala Ile Phe Gly Gly Met Glu
 100 105 110
 Glu Asn Met Leu Leu Ser Val Met Ala Tyr Asp Arg Phe Val Ala Ile
 115 120 125
 Cys His Pro Leu Tyr Tyr Ser Ala Ile Met Asn Pro Cys Phe Cys Gly
 130 135 140
 Phe Leu Val Leu Leu Ser Cys Cys Leu Ser Leu Leu Asp Ser Gln Leu
 145 150 155 160
 His Asn Leu Ile Ala Leu Gln Ile Thr Cys Phe Lys Asp Val Glu Ile
 165 170 175
 Pro Asn Phe Phe Trp Asp Pro Ser Gln Leu Pro His His Ala Cys Cys
 180 185 190
 Asp Thr Phe Thr Asn Asn Ile Val Met Tyr Phe Pro Ala Ala Ile Phe
 195 200 205
 Gly Phe Leu Pro Thr Ser Gly Ile Leu Phe Ser Tyr Tyr Lys Ile Val
 210 215 220
 Ser Ser Ile Leu Arg Val Ser Ser Ser Gly Gly Asn Tyr Lys Ala Leu
 225 230 235 240
 Ser Ala Cys Gly Ser His Leu Ser Val Val Cys Leu Phe Tyr Gly Thr
 245 250 255
 Gly Val Gly Gly Tyr Leu Ser Ser Asp Val Ser Ser Ser Pro Arg Lys
 260 265 270
 Gly Ala Val Ala Ser Val Met Tyr Thr Val Val Thr Pro Met Leu Asn
 275 280 285
 Pro Phe Ile Tyr Ser Leu Arg Asn Arg Asp Ile Lys Ser Val Leu Arg
 290 295 300
 Arg Leu His Gly Arg Thr Val Xaa Ser Gln Tyr Leu Ile Ile Cys Ser
 305 310 315 320
 Ile Pro Phe Val Val Trp Val Xaa Lys Gly Ser Lys Val
 325 330

<210> 1929

<211> 222

<212> PRT

<213> Unknown (H38g847 protein)

<220>

<223> Synthetic construct

<400> 1929

Ser Gln Leu Ser Leu Met Asp Leu Met Leu Ile Cys Thr Thr Leu Pro
 1 5 10 15
 Lys Met Ile Phe Ser Tyr Leu Ser Gly Lys Lys Ser Ile Ser Leu Ala
 20 25 30
 Gly Cys Gly Thr Gln Ile Phe Phe Tyr Val Ser Leu Leu Gly Ala Glu
 35 40 45
 Cys Phe Leu Leu Ala Val Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys
 50 55 60
 His Pro Leu Gln Tyr Thr Ile Leu Met Asn Pro Glu Leu Cys Val Phe
 65 70 75 80
 Met Thr Val Ala Ser Trp Thr Leu Gly Ser Leu Asp Gly Ile Ile Val
 85 90 95
 Leu Ala Ala Val Leu Ser Phe Ser Tyr Cys Ser Ser Leu Glu Ile His

<400> 1931

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Val | Thr | Glu | Phe | Ile | Phe | Leu | Gly | Leu | Ser | Asp | Ser | Gln | Gly | Leu |
| 1 | | | | 5 | | | | 10 | | | | | 15 | | |
| Gln | Thr | Phe | Leu | Phe | Met | Leu | Phe | Phe | Val | Phe | Tyr | Gly | Gly | Ile | Val |
| | | | 20 | | | | | 25 | | | | | 30 | | |
| Phe | Gly | Asn | Leu | Leu | Ile | Val | Ile | Thr | Val | Val | Ser | Asp | Ser | His | Leu |
| | | 35 | | | | | 40 | | | | | 45 | | | |

His Ser Pro Met Tyr Phe Leu Leu Ala Asn Leu Ser Leu Ile Asp Leu
 50 55 60
 Ser Leu Ser Ser Val Thr Ala Pro Lys Met Ile Thr Asp Phe Phe Ser
 65 70 75 80
 Gln Arg Lys Val Ile Ser Phe Lys Gly Cys Leu Val Gln Ile Phe Leu
 85 90 95
 Leu His Phe Phe Gly Gly Ser Glu Met Val Ile Leu Ile Ala Met Gly
 100 105 110
 Phe Asp Arg Tyr Ile Ala Ile Cys Lys Pro Leu His Tyr Thr Thr Ile
 115 120 125
 Met Cys Gly Asn Ala Cys Val Gly Ile Met Ala Val Ala Trp Gly Ile
 130 135 140
 Gly Phe Leu His Ser Val Ser Gln Leu Ala Phe Ala Val His Leu Pro
 145 150 155 160
 Phe Cys Gly Pro Asn Glu Val Asp Ser Phe Tyr Cys Asp Leu Pro Arg
 165 170 175
 Val Ile Lys Leu Ala Cys Thr Asp Thr Tyr Arg Leu Asp Ile Met Val
 180 185 190
 Ile Ala Asn Ser Gly Val Leu Thr Val Cys Ser Phe Val Leu Leu Ile
 195 200 205
 Ile Ser Tyr Thr Ile Ile Leu Met Thr Ile Gln His Arg Pro Leu Asp
 210 215 220
 Lys Ser Ser Lys Ala Leu Ser Thr Leu Thr Ala His Ile Thr Val Val
 225 230 235 240
 Leu Leu Phe Phe Gly Pro Cys Val Phe Ile Tyr Ala Trp Pro Phe Pro
 245 250 255
 Ile Lys Ser Leu Asp Lys Phe Leu Ala Val Phe Tyr Ser Val Ile Thr
 260 265 270
 Pro Leu Leu Asn Pro Ile Ile Tyr Thr Leu Arg Asn Lys Asp Met Lys
 275 280 285
 Thr Ala Ile Arg Gln Leu Arg Lys Trp Asp Ala His Ser Ser Val Lys
 290 295 300
 Phe
 305

<210> 1932

<211> 223

<212> PRT

<213> Unknown (H38g850 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(223)

<223> Xaa = Any Amino Acid

<400> 1932

Ser Asn Leu Ser Leu Pro Asp Ile Gly Phe Pro Ser Pro Thr Val Pro
 1 5 10 15
 Lys Met Val Val Asp Ile Gln Ser His Ser Arg Ser Phe Ser Tyr Ala
 20 25 30
 Gly Cys Leu Thr Gln Met Ser Leu Phe Ala Ile Phe Gly Gly Met Glu
 35 40 45
 Glu Thr Leu Leu Leu Asn Val Met Ala Tyr Val Arg Phe Val Ala Ile
 50 55 60
 Cys His Pro Leu Tyr His Ser Ala Ile Met Asn Pro Cys Phe Cys Gly
 65 70 75 80
 Phe Leu Leu Leu Leu Ser Phe Phe Phe Leu Ser Leu Leu Asp Ala Gln
 85 90 95
 Leu His Asn Leu Ile Ala Leu Gln Met Thr Cys Phe Lys Asp Val Glu

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Pro | Asn | Phe | Leu | Cys | Asp | Pro | Ser | Pro | Leu | Pro | His | Leu | Ala | Cys |
| | | 115 | | | | | 120 | | | | | 125 | | | |
| Cys | Asp | Thr | Phe | Thr | Asn | Asn | Ile | Ile | Met | Tyr | Phe | Pro | Ala | Ala | Ile |
| | | 130 | | | | | 135 | | | | | 140 | | | |
| Phe | Gly | Phe | Leu | Pro | Ile | Ser | Gly | Thr | Leu | Phe | Ser | Tyr | Tyr | Lys | Ile |
| 145 | | | | | 150 | | | | | 155 | | | | | 160 |
| Val | Ser | Ser | Ile | Leu | Arg | Val | Ser | Ser | Ser | Gly | Gly | Lys | Tyr | Lys | Ala |
| | | | | 165 | | | | | 170 | | | | | 175 | |
| Phe | Ser | Thr | Cys | Gly | Ser | His | Leu | Ser | Val | Val | Cys | Xaa | Phe | Tyr | Gly |
| | | | 180 | | | | | 185 | | | | | 190 | | |
| Thr | Gly | Val | Gly | Gly | Tyr | Leu | Gly | Ser | Asp | Val | Ser | Ser | Ser | Pro | Arg |
| | | 195 | | | | | 200 | | | | | 205 | | | |
| Lys | Ser | Ala | Val | Ala | Ser | Val | Met | Tyr | Thr | Val | Val | Thr | Pro | Met | |
| | | 210 | | | | | 215 | | | | | 220 | | | |

<210> 1933

<211> 329

<212> PRT

<213> Unknown (H38g851 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(329)

<223> Xaa = Any Amino Acid

<400> 1933

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asp | Ser | Val | Asp | Gln | Val | Asn | Asp | Ser | Leu | Val | Thr | Glu | Phe | Val | Leu |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |
| Leu | Gly | Leu | Ala | Gln | Ser | Leu | Glu | Met | Gln | Phe | Phe | Leu | Phe | Leu | Phe |
| | | | 20 | | | | | 25 | | | | | 30 | | |
| Phe | Ser | Leu | Phe | Tyr | Val | Gly | Ile | Ile | Leu | Gly | Asn | Leu | Phe | Ile | Val |
| | | 35 | | | | | 40 | | | | | 45 | | | |
| Phe | Thr | Val | Ile | Phe | Asp | Pro | His | Leu | His | Ser | Pro | Met | Tyr | Ile | Leu |
| | | 50 | | | | 55 | | | | | 60 | | | | |
| Leu | Ala | Asn | Leu | Ser | Leu | Ile | Asp | Leu | Ser | Leu | Ser | Ser | Thr | Thr | Val |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |
| Pro | Arg | Leu | Ile | Tyr | Asp | Leu | Phe | Thr | Asp | Cys | Lys | Val | Ile | Ser | Phe |
| | | | | 85 | | | | | 90 | | | | | 95 | |
| His | Asn | Cys | Met | Ile | Gln | Lys | Phe | Phe | Ile | His | Val | Thr | Gly | Gly | Val |
| | | | 100 | | | | | 105 | | | | | 110 | | |
| Glu | Met | Val | Leu | Leu | Ile | Val | Met | Glu | Tyr | Asp | Arg | Tyr | Thr | Ala | Ile |
| | | 115 | | | | | 120 | | | | | 125 | | | |
| Cys | Lys | Pro | Leu | His | Tyr | Pro | Thr | Ile | Met | Asn | Pro | Lys | Met | Cys | Met |
| | | 130 | | | | | 135 | | | | 140 | | | | |
| Phe | Leu | Val | Ala | Ala | Ala | Trp | Val | Ile | Gly | Val | Ile | His | Ala | Met | Ser |
| 145 | | | | | 150 | | | | | 155 | | | | | 160 |
| Gln | Phe | Val | Phe | Val | Ile | Asn | Xaa | Pro | Phe | Cys | Gly | Pro | Asn | Asn | Val |
| | | | | 165 | | | | | 170 | | | | | 175 | |
| Gly | Ser | Phe | Tyr | Cys | Asp | Phe | Pro | Arg | Val | Ile | Lys | Leu | Ala | Cys | Met |
| | | | 180 | | | | | 185 | | | | | 190 | | |
| Asp | Thr | Tyr | Gly | Leu | Glu | Phe | Val | Val | Thr | Ala | Asn | Ser | Gly | Phe | Ile |
| | | 195 | | | | | 200 | | | | | 205 | | | |
| Ser | Met | Gly | Thr | Phe | Phe | Phe | Leu | Ile | Val | Ser | Tyr | Ile | Phe | Ile | Leu |
| | | 210 | | | | | 215 | | | | 220 | | | | |
| Val | Thr | Val | Gln | Arg | His | Ser | Ser | Asn | Asp | Leu | Ser | Lys | Ala | Phe | Phe |
| 225 | | | | | 230 | | | | | 235 | | | | | 240 |
| Thr | Ser | Xaa | Ala | His | Ile | Thr | Val | Val | Val | Leu | Phe | Phe | Ala | Pro | Cys |
| | | | | 245 | | | | | 250 | | | | | 255 | |

Met Phe Leu Tyr Val Trp Pro Phe Pro Thr Lys Ser Leu Asp Lys Phe
 260 265 270
 Phe Ala Ile Met Asn Phe Val Val Thr Pro Val Leu Asn Pro Ala Ile
 275 280 285
 Tyr Thr Leu Arg Asn Lys Asp Met Lys Phe Ala Met Arg Arg Leu Asn
 290 295 300
 Gln His Ile Leu Asn Ser Met Glu Thr Thr Xaa His Ile Trp Leu Met
 305 310 315 320
 Arg Ala Gln Asp Lys Cys His Gly Pro
 325

<210> 1934

<211> 220

<212> PRT

<213> Unknown (H38g852 protein)

<220>

<223> Synthetic construct

<400> 1934

Ser Val Leu Ser Ile Ser Glu Thr Tyr Tyr Thr Val Ala Ile Asn Pro
 1 5 10 15
 Gln Met Leu Ser Gly Leu Leu Ser Pro Gln Gln Thr Ile Ser Ile Pro
 20 25 30
 Gly Cys Ala Ala Gln Leu Phe Phe Tyr Leu Thr Phe Gly Val Asn Lys
 35 40 45
 Cys Phe Leu Leu Thr Ala Met Gly Tyr Asp His Tyr Val Ala Ile Cys
 50 55 60
 Asn Pro Leu Gln Tyr Ser Val Ile Met Gly Lys Lys Ala Cys Ile Gln
 65 70 75 80
 Leu Val Ser Gly Ser Trp Asn Ile Gly Leu Ser Thr Ala Ile Ile Gln
 85 90 95
 Val Ser Ser Val Phe Ser Leu Pro Phe Cys Asp Ala Asn Leu Ile Ser
 100 105 110
 His Phe Phe Cys Asp Ile Arg Pro Ile Met Lys Leu Ala Cys Ala Asp
 115 120 125
 Thr Thr Ile Lys Glu Phe Ile Thr Leu Leu Ile Ser Leu Cys Val Leu
 130 135 140
 Val Leu Pro Met Val Leu Ile Phe Ile Ser Tyr Val Leu Ile Val Thr
 145 150 155 160
 Thr Ile Leu Lys Ile Ala Ser Ala Glu Gly Arg Arg Lys Ala Phe Ala
 165 170 175
 Thr Cys Ala Ser His Leu Thr Val Val Ile Val His Tyr Gly Arg Thr
 180 185 190
 Ser Phe Ile Tyr Leu Lys Pro Lys Ser Gln Asn Ser Leu Gln Asp Arg
 195 200 205
 Leu Ile Ser Val Thr Tyr Thr Val Ile Thr Pro Leu
 210 215 220

<210> 1935

<211> 313

<212> PRT

<213> Unknown (H38g853 protein)

<220>

<223> Synthetic construct

<400> 1935

Met Ser Thr Ser Asn His Thr Gln Phe His Pro Ser Ser Phe Leu Leu
 1 5 10 15
 Leu Gly Ile Pro Gly Leu Glu Asp Val His Ile Trp Ile Gly Val Pro

| | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|
| | | 20 | | | | | | 25 | | | | | 30 | | | | |
| Phe | Phe | Phe | Val | Tyr | Leu | Val | Ala | Leu | Leu | Gly | Asn | Thr | Ala | Leu | Leu | | |
| | | 35 | | | | | 40 | | | | | 45 | | | | | |
| Phe | Val | Ile | Gln | Thr | Glu | Gln | Ser | Leu | His | Glu | Pro | Met | Tyr | Tyr | Phe | | |
| | 50 | | | | | 55 | | | | | 60 | | | | | | |
| Leu | Ala | Met | Leu | Asp | Ser | Ile | Asp | Leu | Gly | Leu | Ser | Thr | Ala | Thr | Ile | | |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 | | |
| Pro | Lys | Met | Leu | Gly | Ile | Phe | Trp | Phe | Asn | Thr | Lys | Glu | Ile | Ser | Phe | | |
| | | | 85 | | | | | | 90 | | | | | 95 | | | |
| Gly | Gly | Cys | Leu | Ser | His | Met | Phe | Phe | Ile | His | Phe | Phe | Thr | Ala | Met | | |
| | | | 100 | | | | | 105 | | | | | 110 | | | | |
| Glu | Ser | Ile | Val | Leu | Val | Ala | Met | Ala | Phe | Asp | Arg | Tyr | Ile | Ala | Ile | | |
| | | 115 | | | | 120 | | | | | | 125 | | | | | |
| Cys | Lys | Pro | Leu | Arg | Tyr | Thr | Met | Ile | Leu | Thr | Ser | Lys | Ile | Ile | Ser | | |
| | 130 | | | | | 135 | | | | | 140 | | | | | | |
| Leu | Ile | Ala | Gly | Ile | Ala | Val | Leu | Arg | Ser | Leu | Tyr | Met | Val | Val | Pro | | |
| 145 | | | | | 150 | | | | | 155 | | | | | 160 | | |
| Leu | Val | Phe | Leu | Leu | Leu | Arg | Leu | Pro | Phe | Cys | Gly | His | Arg | Ile | Ile | | |
| | | | 165 | | | | | | 170 | | | | | 175 | | | |
| Pro | His | Thr | Tyr | Cys | Glu | His | Met | Gly | Ile | Ala | Arg | Leu | Ala | Cys | Ala | | |
| | | | 180 | | | | | 185 | | | | | 190 | | | | |
| Ser | Ile | Lys | Val | Asn | Ile | Arg | Phe | Gly | Leu | Gly | Asn | Ile | Ser | Leu | Leu | | |
| | 195 | | | | | 200 | | | | | | 205 | | | | | |
| Leu | Leu | Asp | Val | Ile | Leu | Ile | Leu | Ser | Tyr | Val | Arg | Ile | Leu | Tyr | | | |
| | 210 | | | | | 215 | | | | | 220 | | | | | | |
| Ala | Val | Phe | Cys | Leu | Pro | Ser | Trp | Glu | Ala | Arg | Leu | Lys | Ala | Leu | Asn | | |
| 225 | | | | | 230 | | | | 235 | | | | | | 240 | | |
| Thr | Cys | Gly | Ser | His | Ile | Gly | Val | Ile | Leu | Ala | Phe | Phe | Thr | Pro | Ala | | |
| | | | | 245 | | | | 250 | | | | | | 255 | | | |
| Phe | Phe | Ser | Phe | Leu | Thr | His | Arg | Phe | Gly | His | Asn | Ile | Pro | Gln | Tyr | | |
| | | 260 | | | | | | 265 | | | | | 270 | | | | |
| Ile | His | Ile | Leu | Ala | Asn | Leu | Tyr | Val | Val | Val | Pro | Pro | Ala | Leu | | | |
| | 275 | | | | | 280 | | | | | 285 | | | | | | |
| Asn | Pro | Val | Ile | Tyr | Gly | Val | Arg | Thr | Lys | Gln | Ile | Arg | Glu | Arg | Val | | |
| | 290 | | | | | 295 | | | | | 300 | | | | | | |
| Leu | Arg | Ile | Phe | Leu | Lys | Thr | Asn | His | | | | | | | | | |
| 305 | | | | | 310 | | | | | | | | | | | | |

<210> 1936

<211> 295

<212> PRT

<213> Unknown (H38g854 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(295)

<223> Xaa = Any Amino Acid

<400> 1936

| | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|
| Tyr | Met | Ile | Thr | Ile | Leu | Trp | Glu | Ile | Ser | Lys | Pro | Val | Asn | Asn | Ile | | |
| 1 | | | | 5 | | | | 10 | | | | | 15 | | | | |
| Phe | Leu | Thr | Leu | Ser | Val | Arg | Tyr | Gln | Met | Leu | Ile | Thr | Thr | Val | Ser | | |
| | | 20 | | | | | 25 | | | | | 30 | | | | | |
| Xaa | Leu | Xaa | Met | Lys | Ser | Ile | Ile | Xaa | Ile | Tyr | Xaa | Ser | Phe | Ser | Glu | | |
| | 35 | | | | | 40 | | | | | 45 | | | | | | |
| Tyr | Leu | Met | Ser | Xaa | Lys | Ile | Trp | Glu | His | Met | Xaa | Tyr | Cys | Ala | Cys | | |
| | 50 | | | | 55 | | | | | 60 | | | | | | | |
| Ile | Asn | Met | Asp | Lys | Val | Ser | Glu | Val | Phe | Ser | Glu | His | Leu | Phe | Gly | | |
| 65 | | | | 70 | | | | 75 | | | | | | | 80 | | |

Ala Ala Glu Ile Ile Pro Leu Met Gly Met Val His Gly Cys Tyr Val
 85 90 95
 Thr Ile Cys Thr Ala Xaa Asn Ile Met Thr Gln Tyr Arg Cys Gly His
 100 105 110
 Leu Ala Gly Met Ala Cys Thr Gly Arg Phe Ile His Gly Thr Val Xaa
 115 120 125
 Ile Leu Ser Pro Val Xaa Leu Pro Phe Tyr Asn Ser Asn Val Thr Ile
 130 135 140
 Xaa Ile Ala His Phe Ile Cys Asp Leu Asn Thr Leu Leu Lys Leu Leu
 145 150 155 160
 Cys Ile Gly Ser His Asp Thr Leu Gly Leu Phe Val Ala Ala Asn Asp
 165 170 175
 Gly Phe Asn Cys Leu Leu Asn Ile Ile Phe Leu Met Val Ser Xaa Val
 180 185 190
 Ala Ile Leu Tyr Thr Leu Lys Ser His Ser Leu Glu Glu Arg Tyr Lys
 195 200 205
 Ala Leu Ser Thr Cys Val Ser His Thr Thr Val Ala Ile Xaa Phe Phe
 210 215 220
 Val Phe Cys Ile Leu Val Tyr Leu Cys Pro Val Thr Leu Leu Pro Val
 225 230 235 240
 Ser Lys Ala Val Ala Val Leu Tyr Thr Met Ile Thr Pro Thr Leu Asn
 245 250 255
 Pro Leu Val Tyr Thr Leu Arg Asn Ala Glu Val Lys Ser Val Glu Lys
 260 265 270
 Leu Leu Gly Gln Lys Met Thr Xaa Arg Glu Lys Xaa Ser Lys His Lys
 275 280 285
 Met Ile Leu Leu Phe Gln Trp
 290 295

<210> 1937

<211> 309

<212> PRT

<213> Unknown (H38g855 protein)

<220>

<223> Synthetic construct

<400> 1937

Met Glu Lys Lys Lys Asn Val Thr Glu Phe Ile Leu Ile Gly Leu Thr
 1 5 10 15
 Gln Asn Pro Ile Met Glu Lys Val Thr Phe Val Val Phe Leu Val Leu
 20 25 30
 Tyr Met Ile Thr Leu Ser Gly Asn Leu Leu Ile Val Val Thr Ile Thr
 35 40 45
 Thr Ser Gln Ala Leu Ser Ser Pro Met Tyr Phe Phe Leu Thr His Leu
 50 55 60
 Ser Leu Ile Asp Thr Val Tyr Ser Ser Ser Ser Ala Pro Lys Leu Ile
 65 70 75 80
 Val Asp Ser Phe Gln Glu Lys Lys Ile Ile Ser Phe Asn Gly Cys Met
 85 90 95
 Ala Gln Ala Tyr Ala Glu His Ile Phe Gly Ala Thr Glu Ile Ile Leu
 100 105 110
 Leu Thr Val Met Ala Cys Asp Cys Tyr Val Ala Ile Cys Lys Pro Leu
 115 120 125
 Asn Tyr Thr Thr Ile Met Ser His Ser Leu Cys Ile Leu Leu Val Ala
 130 135 140
 Val Ala Trp Val Gly Gly Phe Leu His Ala Thr Ile Gln Ile Leu Phe
 145 150 155 160
 Thr Val Trp Leu Pro Phe Cys Gly Pro Asn Val Ile Gly His Phe Met
 165 170 175
 Cys Asp Leu Tyr Pro Leu Leu Lys Leu Val Cys Ile Asp Thr His Thr

```
<210> 1938
<211> 246
<212> PRT
<213> Unknown (H38g856 protein)

<220>
<223> Synthetic construct

<221> VARIANT
<222> (1)...(246)
<223> Xaa = Any Amino Acid
```

| | | | | | | | | | | | | | | | |
|---------|------|-----|-----|--------|--------|-----|-----|-----|--------|-----|-----|-----|-----|--------|---------|
| <400> | 1938 | | | | | | | | | | | | | | |
| Cys 1 | Ile | Gln | Gln | His 5 | Xaa | Ser | Pro | Leu | Cys 10 | Leu | Cys | Met | Phe | Ser 15 | Phe |
| Tyr | Phe | Asn | Leu | Tyr | His | Phe | Phe | Pro | Lys | Xaa | Lys | Tyr | Leu | His | Ser |
| Leu | Arg | Asp | Ala | Glu | Ile | Asn | Xaa | Leu | Val | Xaa | Ser | Lys | Val | Leu | Ile |
| Asn | Gln | Ile | Tyr | Thr | Lys | Ala | Asn | Trp | Pro | Phe | His | Gly | Leu | Xaa | His |
| Tyr 65 | Ala | Gln | Pro | Leu | His 70 | Thr | Gln | Thr | Cys | Ile | Ser | Phe | Ser | Asn | Val 80 |
| Ile | Xaa | Cys | Ser | Thr 85 | Xaa | Leu | Phe | Thr | Gly 90 | His | Phe | Phe | Leu | Gly 95 | Gly |
| Ser | Gln | Ile | Phe | Leu | Leu | Leu | Val | Met | Ala | Tyr | Gly | His | Tyr | Arg | Ala |
| Ile | Cys | Lys | Ser | Leu | Gln | Tyr | Leu | Val | Val | Met | Lys | Gln | Trp | Leu | Cys |
| Val | Val | Leu | Leu | Val | Val | Ser | Trp | Ala | Gly | Gly | Phe | Leu | His | Ile | Val |
| Ile 145 | Gln | Leu | Gly | Leu | Ile | Tyr | Gly | Leu | Pro | Ser | Tyr | Asp | Pro | Asn | Val 160 |
| Ile | Gly | His | Phe | Ile | Cys | Asp | Met | Asp | Pro | Leu | Met | Lys | Leu | Val | Cys |
| Asp | Tyr | Thr | Leu | Asn | Arg | Phe | Ala | Tyr | Phe | Ala | Gly | His | Asp | Xaa | Ile |
| Leu | Gly | Phe | Met | Tyr | Phe | Thr | Tyr | Ala | Gln | Thr | Gly | Leu | Phe | Pro | Phe |
| Gly | Asp | Ser | Thr | Ser | Leu | Phe | Phe | Cys | His | Phe | Phe | Pro | Arg | Gly | Leu |
| Gly 225 | Ser | Ile | Asn | Leu | Ala | Ile | His | Ser | Tyr | Tyr | Pro | Cys | Gly | Ile | Ser 240 |

Arg Asp Thr Glu Pro Thr
245

<210> 1939
<211> 262
<212> PRT
<213> Unknown (H38g857 protein)

<220>
<223> Synthetic construct

<221> VARIANT
<222> (1)...(262)
<223> Xaa = Any Amino Acid

<400> 1939
Leu Ile Val Val Thr Val Thr Val Ser Glu Thr Leu Gly Ser Pro Met
1 5 10 15
Tyr Phe Phe Leu Ala Gly Leu Ser Phe Ile Asp Ile Ile Tyr Ser Ser
20 25 30
Ser Ile Ser His Arg Leu Ile Ser Asp Leu Phe Phe Gly Asn Asn Ser
35 40 45
Ile Ser Phe Pro Ser Cys Leu Ala Gln Leu Phe Thr Glu His Leu Phe
50 55 60
Gly Gly Ser Glu Val Phe Leu Leu Leu Val Met Ala Tyr Asp Leu His
65 70 75 80
Tyr Leu Val Ile Met Arg Gln Trp Val Cys Val Leu Leu Leu Val Ala
85 90 95
Ser Trp Val Gly Gly Phe Leu His Ser Val Phe Gln Leu Ser Val Ile
100 105 110
Tyr Gly Leu Pro Phe Cys Asp Leu Asn Val Ile Asp His Phe Phe Cys
115 120 125
Asp Met His Pro Leu Leu Lys Leu Val Cys Thr Asp Thr His Val Ile
130 135 140
Gly Leu Leu Val Val Ala Asn Gly Gly Leu Gly Cys Thr Ile Val Phe
145 150 155 160
Leu Leu Leu Leu Ile Ser Tyr Gly Val Ile Leu His Ser Leu Lys Asn
165 170 175
Leu Ser Gln Lys Gly Arg Xaa Lys Ala Leu Ser Thr Cys Ser Ser His
180 185 190
Ile Thr Val Val Val Phe Phe Phe Val Pro Cys Ile Phe Met Tyr Ala
195 200 205
Arg Pro Ala Arg Thr Phe Pro Ile Asp Lys Ser Val Ser Val Phe Tyr
210 215 220
Thr Val Ile Thr Pro Met Leu Asn Pro Leu Ile Tyr Thr Leu Arg Asn
225 230 235 240
Ser Glu Met Thr Ser Ala Met Lys Lys Leu Trp Arg Arg Asp Phe Ile
245 250 255
Ser Ser Ser Thr Xaa Val
260

<210> 1940
<211> 309
<212> PRT
<213> Unknown (H38g858 protein)

<220>
<223> Synthetic construct

<221> VARIANT
<222> (1)...(309)

<223> Xaa = Any Amino Acid

<400> 1940

```

Met Arg Gln Asn Asn Asn Ile Thr Glu Phe Val Leu Leu Gly Phe Ser
 1           5           10           15
Gln Asp Leu Asp Val Gln Lys Ala Leu Phe Val Ile Phe Leu Leu Thr
      20           25           30
Tyr Leu Val Thr Val Val Gly Asn Leu Leu Ile Val Val Thr Ile Ile
      35           40           45
Ala Ser Pro Ser Leu Gly Ser Ser Met Tyr Phe Phe Leu Ala Cys Leu
      50           55           60
Ser Phe Ile Asp Ala Ala Tyr Ser Thr Thr Ile Ser Pro Lys Leu Ile
      65           70           75           80
Val Asp Leu Leu Cys Asp Lys Lys Thr Ile Ser Phe Pro Ala Cys Met
      85           90           95
Gly Gln Leu Phe Ile Asp His Leu Asp Gly Gly Ala Glu Val Val Leu
      100          105          110
Leu Val Val Lys Ala Cys Asp His His Val Asp Ile Trp Lys Pro Leu
      115          120          125
Arg Tyr Leu Thr Ile Met Asn Arg Gln Gly Xaa Met Arg Leu Leu Val
      130          135          140
Ala Val Val Thr Gly Gly Val Leu His Ser Leu Ser His Ile Val Ser
      145          150          155          160
Val Val Tyr Ser Leu Ala Tyr Cys Gly Pro Asn Val Ile Asp Tyr Phe
      165          170          175
Val Cys Asp Met Tyr Pro Leu Leu Glu Leu Val Cys Thr Asp Thr Tyr
      180          185          190
Phe Ile Gly Leu Thr Val Phe Val Asn Gly Gly Thr Ile Cys Ile Val
      195          200          205
Val Phe Thr Leu Leu Leu Ile Ser Tyr Gly Val Ile Leu Asn Ser Leu
      210          215          220
Lys Thr Tyr Ser Gln Glu Gly Arg His Lys Val Leu Phe Thr Cys Ser
      225          230          235          240
Ser His Ile Ile Val Phe Ala Leu Phe Phe Val Pro Cys Ile Phe Met
      245          250          255
Tyr Val Arg Pro Val Ser Asn Tyr Pro Phe Asp Lys Phe Leu Thr Val
      260          265          270
Phe Tyr Thr Val Ile Thr Pro Met Leu Asn Pro Leu Ile Tyr Thr Leu
      275          280          285
Arg Asn Ser Glu Met Arg Asn Ser Val Glu Thr Leu Leu Cys Lys Lys
      290          295          300
Leu Thr Val Leu Glu
      305

```

<210> 1941

<211> 305

<212> PRT

<213> Unknown (H38g859 protein)

<220>

<223> Synthetic construct

<400> 1941

```

Met Gln Arg Ser Asn His Thr Val Thr Glu Phe Ile Leu Leu Gly Phe
 1           5           10           15
Thr Thr Asp Pro Gly Met Gln Leu Gly Leu Phe Val Val Phe Leu Gly
      20           25           30
Val Tyr Ser Leu Thr Val Val Gly Asn Ser Thr Leu Ile Val Leu Ile
      35           40           45
Cys Asn Asp Ser His Leu His Thr Pro Met Tyr Phe Val Val Gly Asn
      50           55           60

```

Leu Ser Phe Leu Asp Leu Trp Tyr Ser Ser Val Tyr Thr Pro Lys Ile
 65 70 75 80
 Leu Val Ile Cys Ile Ser Glu Asp Lys Ser Ile Ser Phe Ala Gly Cys
 85 90 95
 Leu Cys Gln Phe Phe Phe Ser Ala Gly Leu Ala Tyr Ser Glu Cys Cys
 100 105 110
 Leu Leu Ala Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile Ser Lys Pro
 115 120 125
 Leu Leu Tyr Ala Gln Ala Met Ser Ile Lys Leu Cys Ala Leu Leu Val
 130 135 140
 Ala Val Ser Tyr Cys Gly Gly Phe Ile Asn Ser Ser Ile Ile Thr Lys
 145 150 155 160
 Lys Thr Phe Ser Phe Asn Phe Cys Arg Glu Asn Ile Ile Asp Asp Phe
 165 170 175
 Phe Cys Asp Leu Leu Pro Leu Val Glu Leu Ala Cys Gly Glu Lys Gly
 180 185 190
 Gly Tyr Lys Ile Met Met Tyr Phe Leu Leu Ala Ser Asn Val Ile Cys
 195 200 205
 Pro Ala Val Leu Ile Leu Ala Ser Tyr Leu Phe Ile Ile Thr Ser Val
 210 215 220
 Leu Arg Ile Ser Ser Ser Lys Gly Tyr Leu Lys Ala Phe Ser Thr Cys
 225 230 235 240
 Ser Ser His Leu Thr Ser Val Thr Leu Tyr Tyr Gly Ser Ile Leu Tyr
 245 250 255
 Ile Tyr Ala Leu Pro Arg Ser Ser Tyr Ser Phe Asp Met Asp Lys Ile
 260 265 270
 Val Ser Thr Phe Tyr Thr Val Val Phe Pro Met Leu Asn Leu Met Ile
 275 280 285
 Tyr Ser Leu Arg Asn Lys Asp Val Lys Glu Ala Leu Lys Lys Leu Leu
 290 295 300
 Pro
 305

<210> 1942

<211> 316

<212> PRT

<213> Unknown (H38g860 protein)

<220>

<223> Synthetic construct

<400> 1942

Met Ile Cys Glu Asn His Thr Arg Val Thr Glu Phe Ile Leu Leu Gly
 1 5 10 15
 Phe Thr Asn Asn Pro Glu Met Gln Val Ser Leu Phe Ile Phe Phe Leu
 20 25 30
 Ala Ile Tyr Thr Val Thr Leu Leu Gly Asn Phe Leu Ile Val Thr Val
 35 40 45
 Thr Ser Val Asp Leu Ala Leu Gln Thr Pro Met Tyr Phe Phe Leu Gln
 50 55 60
 Asn Leu Ser Leu Leu Glu Val Cys Phe Thr Leu Val Met Val Pro Lys
 65 70 75 80
 Met Leu Val Asp Leu Val Ser Pro Arg Lys Ile Ile Ser Phe Val Gly
 85 90 95
 Cys Gly Thr Gln Met Tyr Phe Phe Phe Phe Gly Ser Ser Glu Cys
 100 105 110
 Phe Leu Leu Ser Met Met Ala Tyr Asp Arg Phe Val Ala Ile Cys Asn
 115 120 125
 Pro Leu His Tyr Ser Val Ile Met Asn Arg Ser Leu Cys Leu Trp Met
 130 135 140
 Ala Ile Gly Ser Trp Met Ser Gly Val Pro Val Ser Met Leu Gln Thr

| | | | | | | |
|---|---------------------------------|-----------------|---------|-----|--|-----|
| 145 | | 150 | | 155 | | 160 |
| Ala Trp Met Met | Ala Leu Pro Phe Cys Gly | Pro Asn Ala Val | Asp His | | | |
| | 165 | 170 | 175 | | | |
| Phe Phe Cys Asp Gly | Pro Pro Val Leu Lys Leu Val Thr | Val Asp Thr | | | | |
| | 180 | 185 | 190 | | | |
| Thr Met Tyr Glu Met Gln Ala Leu Ala Ser Thr | Leu Leu Phe Ile Met | | | | | |
| | 195 | 200 | 205 | | | |
| Phe Pro Phe Cys Leu Ile Leu Val Ser Tyr Thr | Arg Ile Ile Ile Thr | | | | | |
| | 210 | 215 | 220 | | | |
| Ile Leu Arg Met Ser Ser Ala Thr Gly Arg Gln Lys Ala Phe Ser Thr | | | | | | |
| 225 | 230 | 235 | 240 | | | |
| Cys Ser Ser His Leu Ile Val Val Ser Leu Phe Tyr Gly Thr Ala Ser | | | | | | |
| | 245 | 250 | 255 | | | |
| Leu Thr Tyr Leu Arg Pro Lys Ser Asn Gln Ser Pro Glu Ser Lys Lys | | | | | | |
| | 260 | 265 | 270 | | | |
| Leu Val Ser Leu Ser Tyr Thr Val Ile Thr Pro Met Leu Asn Pro Ile | | | | | | |
| | 275 | 280 | 285 | | | |
| Ile Tyr Gly Leu Arg Asn Asn Glu Val Lys Gly Ala Val Lys Arg Thr | | | | | | |
| | 290 | 295 | 300 | | | |
| Ile Thr Gln Lys Val Leu Gln Lys Leu Asp Val Phe | | | | | | |
| 305 | 310 | 315 | | | | |

<210> 1943

<211> 309

<212> PRT

<213> Unknown (H38g861 protein)

<220>

<223> Synthetic construct

<400> 1943

| | | | | | | | | | | | | | | |
|---|----|---|--|--|-----|--|--|-----|--|--|--|--|--|--|
| Met Ala Asn Arg Asn Asn Val Thr Glu Phe Ile Leu Leu Gly Leu Thr | | | | | | | | | | | | | | |
| 1 | | 5 | | | 10 | | | 15 | | | | | | |
| Glu Asn Pro Lys Met Gln Lys Ile Ile Phe Val Val Phe Ser Val Ile | | | | | 25 | | | 30 | | | | | | |
| | 20 | | | | | | | | | | | | | |
| Tyr Ile Asn Ala Met Ile Gly Asn Val Leu Ile Val Val Thr Ile Thr | | | | | 40 | | | 45 | | | | | | |
| | 35 | | | | | | | | | | | | | |
| Ala Ser Pro Ser Leu Arg Ser Pro Met Tyr Phe Phe Leu Ala Tyr Leu | | | | | 55 | | | 60 | | | | | | |
| | 50 | | | | | | | | | | | | | |
| Ser Phe Ile Asp Ala Cys Tyr Ser Ser Val Asn Thr Pro Lys Leu Ile | | | | | 70 | | | 75 | | | | | | |
| | 65 | | | | | | | | | | | | | |
| Thr Asp Ser Leu Tyr Glu Asn Lys Thr Ile Leu Phe Asn Gly Cys Met | | | | | 85 | | | 90 | | | | | | |
| | | | | | | | | | | | | | | |
| Thr Gln Val Phe Gly Glu His Phe Phe Arg Gly Val Glu Val Ile Leu | | | | | 100 | | | 105 | | | | | | |
| | | | | | | | | | | | | | | |
| Leu Thr Val Met Ala Tyr Asp His Tyr Val Ala Ile Cys Lys Pro Leu | | | | | 115 | | | 120 | | | | | | |
| | | | | | | | | | | | | | | |
| His Tyr Thr Thr Ile Met Lys Gln His Val Cys Ser Leu Leu Val Gly | | | | | 130 | | | 135 | | | | | | |
| | | | | | | | | | | | | | | |
| Val Ser Trp Val Gly Gly Phe Leu His Ala Thr Ile Gln Ile Leu Phe | | | | | 145 | | | 150 | | | | | | |
| | | | | | | | | | | | | | | |
| Ile Cys Gln Leu Pro Phe Cys Gly Pro Asn Val Ile Asp His Phe Met | | | | | 165 | | | 170 | | | | | | |
| | | | | | | | | | | | | | | |
| Cys Asp Leu Tyr Thr Leu Ile Asn Leu Ala Cys Thr Asn Thr His Thr | | | | | 180 | | | 185 | | | | | | |
| | | | | | | | | | | | | | | |
| Leu Gly Leu Phe Ile Ala Ala Asn Ser Gly Phe Ile Cys Leu Leu Asn | | | | | 195 | | | 200 | | | | | | |
| | | | | | | | | | | | | | | |
| Cys Leu Leu Leu Val Ser Cys Val Val Ile Leu Tyr Ser Leu Lys | | | | | 210 | | | 215 | | | | | | |
| | | | | | | | | | | | | | | |
| Thr His Ser Leu Glu Ala Arg His Glu Ala Leu Ser Thr Cys Val Ser | | | | | 225 | | | 230 | | | | | | |
| | | | | | | | | | | | | | | |

```
<210> 1944
<211> 164
<212> PRT
<213> Unknown (H38g862 protein)
```

[illegible]

<220>
<223> Synthetic construct

1121

```

      35              40              45
Ile Ile Ile Ile Ser Leu Ile Trp Ile Thr Pro Ala Leu His Thr Pro
  50              55              60
Met Tyr Phe Phe Leu Val Asn Leu Ser Phe Leu Glu Met Cys Tyr Thr
  65              70              75              80
Thr Ser Val Val Pro Leu Leu Val His Leu Leu Val Glu Thr Lys Thr
      85              90              95
Ile Ser Val Gly Gly Cys Ala Thr Gln Met Tyr Ile Phe Ala Ile Leu
      100              105              110
Gly Leu Thr Glu Cys Cys Leu Leu Ala Ala Met Ala Tyr Asp Arg Phe
      115              120              125
Val Ala Ile Cys Tyr Pro Leu His Tyr Thr Leu Phe Met Gly Pro Arg
      130              135              140
Val Cys Leu Lys Leu Ala Ala Ser Trp Phe Thr Gly Val Val Val
      145              150              155              160
Glu Ser Ala Gln Ile Thr Leu Ile Phe Thr Leu Pro Phe Cys Gly Thr
      165              170              175
Gly Lys Ile Pro Thr Leu Phe Cys Asp Ile Met Pro Val Leu Lys Leu
      180              185              190
Ala Cys Ile Asp Thr Ser Gln Ile Glu Ile Val Met Phe Ser Leu Ser
      195              200              205
Val Leu Phe Ile Val Ser Pro Cys Phe Leu Ile Leu Cys Ser His Met
      210              215              220
His Ile Pro Val Thr Ile Leu Arg Ile Pro Ser Ala Ala Gly Arg His
      225              230              235              240
Lys Ala Phe Ser Thr Cys Ser Ser His Ile Leu Val Val Ser Leu Phe
      245              250              255
Tyr Gly Thr Ala Leu Phe Thr Tyr Leu Gln Pro Lys Thr Ala His Thr
      260              265              270
Pro Glu Thr Asp Lys Ala Thr Ala Leu Met Tyr Thr Met Val Thr Pro
      275              280              285
Ala Leu Asn Pro Val Ile Tyr Thr Leu Arg Asn Lys Glu Val Lys Glu
      290              295              300
Ala Phe Gln Arg Ile Thr Gln Arg Asn Ser Leu Arg Gln Thr
      305              310              315

```

<210> 1946

<211> 291

<212> PRT

<213> Unknown (H38g864 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(291)

<223> Xaa = Any Amino Acid

<400> 1946

```

Ser Met Tyr Leu Val Thr Met Leu Arg Asn Leu Phe Ile Ile Leu Ala
  1              5              10              15
Gly Ser Ser Asp Pro His Phe His Thr Pro Met Tyr Phe Phe Leu Ser
      20              25              30
Asn Leu Ser Trp Ala Asp Ile Gly Phe Thr Ser Ala Thr Val Pro Lys
      35              40              45
Met Ile Val Asp Met Gln Ser His Ser Arg Val Ile Ser Tyr Ala Gly
      50              55              60
Cys Leu Thr Gln Met Ser Phe Phe Val Leu Phe Ala Cys Ile Glu Asp
      65              70              75              80
Met Leu Leu Thr Leu Met Ala Tyr Asp Arg Phe Val Ala Ile Cys His
      85              90              95

```

```

Ile Cys His Pro Leu His Tyr Arg Val Ile Met Asn Pro His Leu Cys
      100                      105                      110
Val Phe Leu Val Leu Val Ser Phe Phe Leu Ser Leu Leu Asp Ser Gln
      115                      120                      125
Leu His Ser Trp Ile Val Leu His Asn Ser Pro Phe Gln Glu Cys Gly
      130                      135                      140
Asn Leu Xaa Phe Phe Phe Cys Asp Pro Ser Gln Leu Leu Asn Leu Ala
      145                      150                      155                      160
Cys Ser Asp Ser Ile Ile Asn Asn Ile Leu Cys Ile Leu Asp Ile Pro
      165                      170                      175
Ile Phe Gly Phe Leu Pro Ile Ser Gly Ile Leu Leu Ser Tyr Tyr Lys
      180                      185                      190
Ile Val Ser Ser Ile Pro Arg Ile Pro Ser Ser Asp Gly Lys Tyr Lys
      195                      200                      205
Ala Phe Ser Thr Cys Gly Ser His Leu Ala Val Val Cys Leu Phe Tyr
      210                      215                      220
Glu Thr Gly Ile Gly Val Tyr Leu Thr Ser Ala Val Ser Ser Ser Pro
      225                      230                      235                      240
Arg Asn Gly Val Val Ala Ser Val Met Tyr Ala Val Val Ile Pro Met
      245                      250                      255
Leu Asn Pro Phe Ile Tyr Ser Leu Arg Asn Arg Asp Ile His Ser Ala
      260                      265                      270
Leu Trp Arg Leu Arg Ser Arg Thr Val Lys Ser His Asp Leu Phe His
      275                      280                      285
Pro Phe Ser
      290

```

<210> 1947
 <211> 327
 <212> PRT
 <213> Unknown (H38g865 protein)

<220>
 <223> Synthetic construct

<221> VARIANT
 <222> (1)...(327)
 <223> Xaa = Any Amino Acid

```

<400> 1947
Met Asp Val Ser Ile Phe Leu Leu Leu Gly Thr Thr Glu Asp Pro Glu
  1          5          10          15
Arg Gln Pro Val Leu Thr Gly Leu Phe Leu Ser Met Cys Leu Val Thr
      20          25          30
Val Leu Gly Lys Leu Leu Ile Met Leu Ala Phe Ser Pro Asp Ser His
      35          40          45
Leu His Thr His Met Tyr Phe Phe Leu Ser Asn Leu Ser Leu Pro Asp
      50          55          60
Ile Gly Phe Thr Ser Thr Ile Val Pro Lys Met Ile Ala Asp Ile Gln
      65          70          75          80
Ser His Ser Arg Val Ile Ser Tyr Ala Gly Arg Leu Thr Gln Met Ser
      85          90          95
Leu Phe Ala Ile Phe Gly Gly Met Glu Glu Asp Met Leu Leu Ser Val
      100          105          110
Met Ala Tyr Asp Arg Phe Val Ala Ile Cys His Pro Leu Tyr His Ser
      115          120          125
Ala Ile Met Asn Pro Cys Phe Cys Gly Phe Leu Leu Leu Phe Phe
      130          135          140
Phe Phe Leu Ser Leu Leu Asp Thr Gln Leu His Asn Leu Ile Ala Leu
      145          150          155          160
Gln Met Thr Cys Phe Lys Asp Val Glu Ile Pro Asn Phe Phe Trp Asp

```

| | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|
| | | | | 165 | | | | | 170 | | | | | 175 | | | |
| Pro | Ser | Gln | Leu | Pro | His | Leu | Ala | Cys | Cys | Asp | Thr | Phe | Thr | Asn | Asn | | |
| | | | 180 | | | | | 185 | | | | | 190 | | | | |
| Ile | Ile | Val | Tyr | Phe | Pro | Ala | Val | Ile | Phe | Val | Phe | Leu | Pro | Ile | Ser | | |
| | | 195 | | | | | 200 | | | | | 205 | | | | | |
| Gly | Thr | Leu | Phe | Ser | Tyr | Lys | Thr | Val | Ser | Ser | Ile | Leu | Arg | Val | Ser | | |
| | 210 | | | | | 215 | | | | | 220 | | | | | | |
| Ser | Ser | Gly | Gly | Lys | Tyr | Lys | Thr | Phe | Ser | Thr | Cys | Gly | Ser | His | Leu | | |
| 225 | | | | | 230 | | | | | 235 | | | | | 240 | | |
| Ser | Val | Ile | Cys | Xaa | Phe | Tyr | Gly | Thr | Gly | Val | Gly | Gly | Tyr | Leu | Ser | | |
| | | | 245 | | | | | | 250 | | | | | 255 | | | |
| Ser | Asp | Val | Ser | Ser | Ser | Leu | Arg | Lys | Ala | Ala | Val | Ala | Ser | Val | Met | | |
| | | 260 | | | | | | 265 | | | | | 270 | | | | |
| Tyr | Lys | Met | Val | Thr | Pro | Met | Leu | Asn | Pro | Phe | Ile | Tyr | Ser | Leu | Arg | | |
| | 275 | | | | | 280 | | | | | | 285 | | | | | |
| Asn | Arg | Asp | Met | Lys | Ser | Val | Leu | Arg | Arg | Pro | His | Gly | Ser | Thr | Val | | |
| | 290 | | | | | 295 | | | | | 300 | | | | | | |
| Xaa | Ser | Gln | Tyr | Leu | Leu | Ile | Cys | Ser | Ile | Pro | Phe | Val | Gly | Trp | Val | | |
| 305 | | | | | 310 | | | | | 315 | | | | | 320 | | |
| Lys | Lys | Gly | Ser | Lys | Val | Lys | | | | | | | | | | | |
| | | | | 325 | | | | | | | | | | | | | |

<210> 1948

<211> 254

<212> PRT

<213> Unknown (H38g866 protein)

<220>

<223> Synthetic construct

<400> 1948

| | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|
| Met | Gly | Asp | Lys | Gly | Thr | Gly | Asn | His | Ser | Asp | Val | Thr | Asp | Phe | Ile | | |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | | | |
| Leu | Glu | Gly | Phe | Arg | Val | Arg | Pro | Glu | Phe | Tyr | Ile | Leu | Leu | Phe | Phe | | |
| | | | 20 | | | | | 25 | | | | | 30 | | | | |
| Leu | Phe | Leu | Leu | Ile | Tyr | Ser | Met | Val | Leu | Leu | Gly | Asn | Ile | Ser | Val | | |
| | 35 | | | | | 40 | | | | | | 45 | | | | | |
| Met | Thr | Ile | Ile | Val | Thr | Asp | Ser | Gln | Leu | Asn | Thr | Pro | Met | Tyr | Phe | | |
| | 50 | | | | | 55 | | | | | 60 | | | | | | |
| Phe | Leu | Gly | Asn | Leu | Ser | Phe | Ile | Asp | Val | Ser | Tyr | Ser | Thr | Val | Ile | | |
| 65 | | | | | 70 | | | | | 75 | | | | 80 | | | |
| Ala | Pro | Lys | Ala | Met | Ala | His | Phe | Leu | Ser | Glu | Lys | Lys | Thr | Val | Ser | | |
| | | | 85 | | | | | 90 | | | | | | 95 | | | |
| Phe | Ala | Gly | Cys | Val | Ala | Gln | Leu | Phe | Leu | Phe | Ala | Leu | Phe | Ile | Val | | |
| | | 100 | | | | | | 105 | | | | | 110 | | | | |
| Thr | Glu | Gly | Phe | Val | Leu | Ala | Ala | Met | Ala | Tyr | Asp | Arg | Phe | Ser | Ala | | |
| | 115 | | | | | | 120 | | | | | 125 | | | | | |
| Ile | Cys | Asn | Pro | Leu | Leu | His | Ser | Val | His | Met | Ser | Arg | Arg | Leu | Cys | | |
| | 130 | | | | | 135 | | | | | 140 | | | | | | |
| Thr | Gln | Leu | Val | Ala | Gly | Ser | Tyr | Phe | Cys | Gly | Trp | Ala | Ser | Ser | Ile | | |
| 145 | | | | | 150 | | | | | 155 | | | | | 160 | | |
| Leu | Gln | Val | Ser | Val | Thr | Phe | Ser | Val | Ser | Phe | Cys | Ala | Ser | Arg | Val | | |
| | | | 165 | | | | | | 170 | | | | | 175 | | | |
| Ile | Ala | His | Phe | Tyr | Cys | Asp | Ser | Tyr | Gln | Ile | Glu | Lys | Ile | Ser | Cys | | |
| | | 180 | | | | | | 185 | | | | | 190 | | | | |
| Ser | Asn | Leu | Phe | Val | Asn | Lys | Met | Val | Ser | Leu | Ser | Leu | Ser | Val | Ile | | |
| | 195 | | | | | | 200 | | | | | 205 | | | | | |
| Ile | Ile | Leu | Pro | Thr | Ile | Val | Val | Ile | Ile | Val | Ser | Tyr | Leu | Tyr | Ile | | |
| | 210 | | | | | 215 | | | | | 220 | | | | | | |
| Val | Ser | Ser | Val | Leu | Lys | Ile | Pro | Ser | Ser | Glu | Gly | Arg | Lys | Lys | Asp | | |
| 225 | | | | | 230 | | | | | 235 | | | | | 240 | | |

Phe Ser Thr Cys Ser Ser His Arg Gly Val Val Ser Leu Leu
245 250

<210> 1949

<211> 335

<212> PRT

<213> Unknown (H38g867 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(335)

<223> Xaa = Any Amino Acid

<400> 1949

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Tyr | Thr | Asp | Pro | Gln | Asn | Leu | Thr | Asp | Ala | Ser | Lys | Tyr | Leu | Leu | Leu |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |
| Glu | Leu | Ser | Glu | Asp | Pro | Lys | Leu | Gln | Leu | Ala | Leu | Ser | Gly | Arg | Glu |
| | | 20 | | | | | | 25 | | | | | 30 | | |
| Pro | Cys | Thr | Cys | Thr | Xaa | Ser | Leu | Val | Leu | Glu | Asn | Leu | Leu | Ile | Ile |
| | | 35 | | | | | 40 | | | | | 45 | | | |
| Leu | Ala | Val | Ser | Ser | Asp | Phe | His | Leu | His | Thr | Pro | Met | Tyr | Phe | Phe |
| | 50 | | | | | 55 | | | | | 60 | | | | |
| Leu | Ser | Asn | Leu | Ser | Leu | Ala | Asp | Ile | Gly | Phe | Thr | Ser | Asn | Thr | Val |
| 65 | | | | | 70 | | | | | 75 | | | | 80 | |
| Pro | Lys | Met | Ile | Val | Asp | Ile | Gln | Ser | His | Ser | Arg | Val | Ile | Ser | Tyr |
| | | | | 85 | | | | | 90 | | | | | 95 | |
| Ala | Gly | Cys | Leu | Thr | Gln | Met | Ser | Leu | Phe | Ala | Val | Phe | Gly | Gly | Met |
| | | | 100 | | | | | 105 | | | | | 110 | | |
| Glu | Glu | Asn | Met | Leu | Leu | Ser | Val | Arg | Ala | Tyr | Asp | Arg | Phe | Val | Ala |
| | | 115 | | | | | 120 | | | | | 125 | | | |
| Ile | Cys | His | Pro | Leu | Tyr | Tyr | Ser | Ala | Ile | Met | Asn | Pro | Cys | Phe | Cys |
| | 130 | | | | | 135 | | | | | 140 | | | | |
| Gly | Phe | Leu | Val | Leu | Phe | Phe | Phe | Phe | Leu | Ser | Leu | Leu | Asp | Ser | Gln |
| 145 | | | | | 150 | | | | | 155 | | | | | 160 |
| Leu | His | Asn | Leu | Ile | Ala | Leu | Gln | Met | Thr | Cys | Ile | Lys | Asp | Val | Glu |
| | | | 165 | | | | | | 170 | | | | | 175 | |
| Ile | Pro | Asn | Phe | Phe | Trp | Asp | Pro | Ser | Gln | Leu | Pro | His | Leu | Ala | Cys |
| | | 180 | | | | | | 185 | | | | | 190 | | |
| Cys | Asp | Thr | Phe | Thr | Asn | Asn | Ile | Val | Met | Tyr | Phe | Leu | Ala | Ala | Ile |
| | | 195 | | | | | 200 | | | | | 205 | | | |
| Phe | Gly | Phe | Leu | Pro | Ile | Ser | Arg | Ile | Ile | Phe | Ser | Tyr | Tyr | Lys | Ile |
| | 210 | | | | | 215 | | | | 220 | | | | | |
| Val | Ser | Ser | Met | Leu | Ser | Val | Ser | Ser | Ser | Gly | Gly | Lys | Tyr | Lys | Ala |
| 225 | | | | | 230 | | | | | 235 | | | | 240 | |
| Phe | Ser | Thr | Cys | Gly | Ser | Pro | Leu | Ser | Val | Val | Cys | Leu | Phe | Tyr | Gly |
| | | | 245 | | | | | | 250 | | | | | 255 | |
| Lys | Val | Val | Gly | Tyr | Leu | Ser | Ser | Asp | Val | Ser | Ser | Ser | Ser | Pro | Arg |
| | | 260 | | | | | 265 | | | | | | 270 | | |
| Lys | Gly | Ala | Val | Ala | Ser | Met | Met | Tyr | Thr | Val | Ile | Thr | Pro | Met | Leu |
| | | 275 | | | | | 280 | | | | | 285 | | | |
| Asn | Pro | Phe | Ile | Tyr | Arg | Leu | Arg | Asn | Arg | Asp | Ile | Lys | Arg | Val | Leu |
| | 290 | | | | | 295 | | | | | 300 | | | | |
| Trp | Trp | Leu | His | Gly | Arg | Thr | Val | Xaa | Ser | His | Tyr | Phe | Ile | Ile | Cys |
| 305 | | | | 310 | | | | | | 315 | | | | 320 | |
| Ser | Ile | Pro | Phe | Val | Trp | Val | Lys | Lys | Gly | Ser | Lys | Val | Lys | | |
| | | | 325 | | | | | 330 | | | | | 335 | | |

<210> 1950

<211> 317

<212> PRT
 <213> Unknown (H38g868 protein)

<220>
 <223> Synthetic construct

<221> VARIANT
 <222> (1)...(317)
 <223> Xaa = Any Amino Acid

<400> 1950
 Thr Gly Val Xaa Glu Phe Leu Leu Leu Gly Leu Ser Glu Asp Pro Glu
 1 5 10 15
 Leu Gln Pro Ala Leu Ala Leu Leu Ser Leu Ser Leu Ser Met Tyr Leu
 20 25 30
 Val Thr Val Leu Arg Asn Leu Phe Ser Ile Leu Ala Val Ser Ser Asp
 35 40 45
 Cys Pro Leu His Thr Pro Met Tyr Phe Phe Leu Ser Asn Leu Cys Trp
 50 55 60
 Pro Asp Ile Gly Phe Thr Ser Ala Met Val Pro Lys Met Ile Val Asp
 65 70 75 80
 Thr Gln Ser His Ser Arg Val Ile Ser His Ala Gly Cys Leu Thr Gln
 85 90 95
 Met Ser Phe Leu Leu Val Ala Cys Ile Glu Gly Met Leu Leu Thr
 100 105 110
 Val Met Ala Tyr Asp Cys Phe Val Ala Ile Cys Arg Pro Leu His Tyr
 115 120 125
 Pro Val Ile Val Asn Pro His Leu Cys Val Phe Phe Val Leu Val Ser
 130 135 140
 Phe Phe Leu Ser Leu Leu Asp Ser Gln Leu His Ser Trp Ile Val Leu
 145 150 155 160
 Gln Leu Thr Ile Ile Lys Asn Val Glu Ile Ser Asn Leu Val Cys Asp
 165 170 175
 Pro Ser Gln Leu Leu Lys Leu Ala Cys Ser Asp Ser Val Ile Asn Asn
 180 185 190
 Ile Phe Ile Tyr Phe Asp Ser Thr Met Phe Gly Phe Leu Pro Ile Ser
 195 200 205
 Gly Ile Phe Leu Ser Tyr Tyr Lys Ile Val Pro Ser Ile Leu Arg Ile
 210 215 220
 Ser Ser Ser Asp Gly Lys Tyr Lys Ala Phe Ser Thr Cys Gly Cys His
 225 230 235 240
 Leu Ala Val Val Cys Trp Phe Tyr Gly Thr Gly Ile Gly Met Tyr Leu
 245 250 255
 Thr Ser Ala Val Ser Pro Pro Pro Arg Asn Gly Val Val Ala Ser Val
 260 265 270
 Met Tyr Ala Val Val Thr Pro Met Leu Asn Leu Phe Ile Cys Ser Leu
 275 280 285
 Arg Asn Arg Asp Ile Gln Ser Ala Leu Arg Arg Leu Gly Ser Arg Ala
 290 295 300
 Phe Glu Ser Pro Xaa Ser Val Pro Ser Phe Phe Leu Cys
 305 310 315

<210> 1951
 <211> 313
 <212> PRT
 <213> Unknown (H38g869 protein)

<220>
 <223> Synthetic construct

<400> 1951

Met Gly Asp Arg Gly Thr Ser Asn His Ser Glu Met Thr Asp Phe Ile
 1 5 10 15
 Leu Ala Gly Phe Arg Val Arg Pro Glu Leu His Ile Leu Leu Phe Leu
 20 25 30
 Leu Phe Leu Phe Val Tyr Ala Met Ile Leu Leu Gly Asn Val Gly Met
 35 40 45
 Met Thr Ile Ile Met Thr Asp Pro Arg Leu Asn Thr Pro Met Tyr Phe
 50 55 60
 Phe Leu Gly Asn Leu Ser Phe Ile Asp Leu Phe Tyr Ser Ser Val Ile
 65 70 75 80
 Glu Pro Lys Ala Met Ile Asn Phe Trp Ser Glu Asn Lys Ser Ile Ser
 85 90 95
 Phe Ala Gly Cys Val Ala Gln Leu Phe Leu Phe Ala Leu Leu Ile Val
 100 105 110
 Thr Glu Gly Phe Leu Leu Ala Ala Met Ala Tyr Asp Arg Phe Ile Ala
 115 120 125
 Ile Cys Asn Pro Leu Leu Tyr Ser Val Gln Met Ser Thr Arg Leu Cys
 130 135 140
 Thr Gln Leu Val Ala Gly Ser Tyr Phe Cys Gly Cys Ile Ser Ser Val
 145 150 155 160
 Ile Gln Thr Ser Met Thr Phe Thr Leu Ser Phe Cys Ala Ser Arg Ala
 165 170 175
 Val Asp His Phe Tyr Cys Asp Ser Arg Pro Leu Gln Arg Leu Ser Cys
 180 185 190
 Ser Asp Leu Phe Ile His Arg Met Ile Ser Phe Ser Leu Ser Cys Ile
 195 200 205
 Ile Ile Leu Pro Thr Ile Ile Val Ile Ile Val Ser Tyr Met Tyr Ile
 210 215 220
 Val Ser Thr Val Leu Lys Ile His Ser Thr Glu Gly His Lys Lys Ala
 225 230 235 240
 Phe Ser Thr Cys Ser Ser His Leu Gly Val Val Ser Val Leu Tyr Gly
 245 250 255
 Ala Val Phe Phe Met Tyr Leu Thr Pro Asp Arg Phe Pro Glu Leu Ser
 260 265 270
 Lys Val Ala Ser Leu Cys Tyr Ser Leu Val Thr Pro Met Leu Asn Pro
 275 280 285
 Leu Ile Tyr Ser Leu Arg Asn Lys Asp Val Gln Glu Ala Leu Lys Lys
 290 295 300
 Phe Leu Glu Lys Lys Asn Ile Ile Leu
 305 310

<210> 1952

<211> 277

<212> PRT

<213> Unknown (H38g870 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(277)

<223> Xaa = Any Amino Acid

<400> 1952

His Ser Phe Leu Arg Tyr Ile Phe Ala Lys Leu Thr Gly Glu Pro Glu
 1 5 10 15
 Leu Gln Pro Ser Leu Tyr Ser Val Phe Trp Ser Pro Xaa Leu Gly Xaa
 20 25 30
 Pro His His Thr Ser Met Tyr Pro Leu His Thr Ser Met Tyr Leu Tyr
 35 40 45
 Ile Phe Ser Phe Ser Phe Ile Gly Phe Phe Tyr Ser Ser Val Ile Ser

| | | |
|---|-----|-----|
| 50 | 55 | 60 |
| Pro Gln Met Thr Ile Ser Phe Val Thr Glu Lys Asn Ile Ile Thr Tyr | | |
| 65 | 70 | 75 |
| Val Thr Ser Asn Thr Gln Pro Phe Pro Leu Cys Phe Phe Val Ile Ser | | 80 |
| | 85 | 90 |
| Asp Tyr Ser Ile Phe Ile Pro Leu Ala Leu Asp His Tyr Glu Ala Met | | 95 |
| | 100 | 105 |
| Thr Leu Pro Val Ser Phe Ile Ser Phe Ile Ser Val Asp Gly Ser Xaa | | 110 |
| | 115 | 120 |
| Val Ile Glu Phe Ala Asp Ala Val Val His Gln Gly Ser Met Asp Gln | | 125 |
| | 130 | 135 |
| Phe Leu Phe Cys Asp His Ser Cys Met Ser Leu Asn Leu Cys Asn Ile | | 140 |
| 145 | 150 | 155 |
| Gly Pro Leu Gln Ala Ala Xaa Ile Ser Thr Tyr Val Ser Lys Gln Val | | 160 |
| | 165 | 170 |
| Asp Leu Tyr Ser Xaa Glu Pro Ala Val Tyr His Ala Val Leu Ser Phe | | 175 |
| | 180 | 185 |
| Ser Tyr Phe Val Phe Ile Leu Phe Asn Ile Phe His Xaa Pro Ser Gly | | 190 |
| | 195 | 200 |
| Pro Asn Leu Gln Pro Asp Ser Ile Asn Leu Phe Ile Ser Phe Phe Gly | | 205 |
| | 210 | 215 |
| Leu Gly Thr Phe Met Tyr Leu Arg Ser Pro Glu Ala Met Gly Xaa Cys | | 220 |
| 225 | 230 | 235 |
| Lys Phe Thr Val Ser Phe Thr Lys Met Gly Pro Val Met Asn Gly Leu | | 240 |
| | 245 | 250 |
| Phe Asn Thr Leu Arg Asn Lys Thr Ile Xaa Leu Ala Ala Met Lys Pro | | 255 |
| | 260 | 265 |
| Leu Ser Phe Ser Ser | | 270 |
| 275 | | |

<210> 1953

<211> 335

<212> PRT

<213> Unknown (H38g871 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(335)

<223> Xaa = Any Amino Acid

<400> 1953

| | | |
|---|-----|-----|
| Asp Thr Asp Pro Gln Ser Leu Thr Asp Val Ser Ile Phe Leu Leu Leu | | |
| 1 | 5 | 10 |
| Glu Leu Ser Glu Asp Pro Glu Leu Gln Pro Val Val Ala Gly Leu Phe | | 15 |
| | 20 | 25 |
| Leu Ser Met Cys Leu Val Thr Val Leu Glu Asn Leu Leu Ile Ile Leu | | 30 |
| | 35 | 40 |
| Ala Val Ser Pro Asp Ser His Leu His Thr Pro Met Tyr Phe Phe Leu | | 45 |
| | 50 | 55 |
| Ser Asn Leu Ser Leu Pro Asp Ile Gly Phe Thr Ser Thr Thr Val Pro | | 60 |
| 65 | 70 | 75 |
| Lys Met Ile Val Asp Ile Gln Ser His Ser Arg Val Ile Ser Tyr Ala | | 80 |
| | 85 | 90 |
| Gly Cys Leu Thr Gln Met Ser Leu Phe Ala Ile Phe Gly Gly Arg Glu | | 95 |
| | 100 | 105 |
| Glu Asn Met Leu Leu Ser Val Met Ala Tyr Asp Gln Phe Val Ala Ile | | 110 |
| | 115 | 120 |
| Cys His Pro Pro Tyr Arg Ser Ala Ile Leu Asn Pro Cys Phe Cys Gly | | 125 |
| | 130 | 135 |
| | | 140 |

```

Phe Leu Asp Leu Leu Ser Leu Phe Phe Phe Phe Phe Phe Phe Ser
145                      150                      155                      160
Leu Ser Leu Leu Asp Ser Gln Leu His Asn Leu Ile Ala Leu Gln Met
                      165                      170                      175
Thr Cys Phe Lys Asp Val Glu Ile Pro Asn Phe Phe Trp Glu Pro Cys
                      180                      185                      190
Cys Asp Thr Phe Thr Arg Asn Ile Asn Met Tyr Phe Pro Ala Ala Val
                      195                      200                      205
Phe Gly Phe Leu Pro Ile Ser Gly Thr Leu Phe Ser Tyr Cys Lys Ile
210                      215                      220
Val Ser Ser Ile Leu Arg Val Ser Ser Ser Gly Gly Lys Tyr Lys Ala
225                      230                      235                      240
Phe Thr Thr Cys Gly Ser His Leu Ser Val Val Cys Xaa Phe Tyr Gly
                      245                      250                      255
Thr Gly Val Gly Tyr Leu Gly Ser Asp Val Ser Ser Ser Pro Arg
                      260                      265                      270
Lys Arg Ala Val Ala Ser Val Met Tyr Thr Val Val Thr Pro Met Leu
                      275                      280                      285
Asn Pro Phe Ile Tyr Ser Leu Arg Asn Arg Asp Met Lys Ser Val Leu
290                      295                      300
Arg Arg Pro His Ser Ser Ala Val Xaa Ser Gln Tyr Leu Leu Ile Cys
305                      310                      315                      320
Ser Ile Pro Phe Val Gly Trp Val Lys Lys Gly Ser Lys Val Lys
                      325                      330                      335

```

<210> 1954

<211> 342

<212> PRT

<213> Unknown (H38g872 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(342)

<223> Xaa = Any Amino Acid

<400> 1954

```

Asp Thr Asp Pro Gln Ser Leu Thr Asp Val Ser Ile Phe Leu Leu Leu
1      5      10      15
Glu Leu Ser Glu Asp Pro Glu Leu Gln Pro Val Val Ala Gly Leu Phe
20     25     30
Leu Ser Met Cys Leu Val Thr Val Leu Gly Asn Leu Leu Ile Ile Leu
35     40     45
Ala Val Ser Pro Asp Ser His Leu Pro Thr Pro Met Tyr Phe Phe Leu
50     55     60
Ser Asn Leu Ser Leu Pro Asp Ile Gly Phe Thr Ser Thr Thr Val Pro
65     70     75     80
Lys Met Ser Val Asp Ile Gln Ser His Ser Arg Val Ile Ser Tyr Ala
85     90     95
Gly Cys Leu Thr Gln Met Ser Leu Phe Ala Ile Phe Gly Gly Met Glu
100    105    110
Lys Arg His Ala Pro Glu Val Met Ala Tyr Asp Leu Phe Val Pro Ile
115    120    125
Cys His Leu Leu Tyr Arg Ser Thr Ile Leu Asn Pro Phe Val Arg Gly
130    135    140
Phe Leu Asn Leu Leu Ser Leu Phe Val Gly Phe Phe Phe Ser Leu
145    150    155    160
Ser Leu Leu Asp Ser Gln Leu His Asn Leu Ile Ala Leu Gln Met Thr
165    170    175
Tyr Phe Lys Asp Val Glu Ile Pro Asn Phe Phe Trp Glu Pro Ser Gln

```

| | | | | | | | | | | | | | | | | |
|-------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| <400> | 1955 | | | | | | | | | | | | | | | |
| Met | Asp | Leu | Gly | Asn | Ser | Gly | Asn | Asp | Ser | Val | Val | Thr | Lys | Phe | Val | |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | | |
| Leu | Leu | Gly | Leu | Thr | Glu | Thr | Ala | Ala | Leu | Gln | Pro | Ile | Leu | Phe | Val | |
| | | | 20 | | | | | 25 | | | | | 30 | | | |
| Ile | Phe | Leu | Leu | Ala | Tyr | Val | Thr | Thr | Ile | Gly | Gly | Thr | Leu | Ser | Ile | |
| | | 35 | | | | | 40 | | | | | 45 | | | | |
| Leu | Ala | Ala | Ile | Leu | Met | Glu | Thr | Lys | Leu | His | Ser | Pro | Met | Tyr | Phe | |
| | 50 | | | | | 55 | | | | 60 | | | | | | |
| Phe | Leu | Gly | Asn | Leu | Ser | Leu | Pro | Asp | Val | Gly | Cys | Val | Ser | Val | Thr | |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 | |
| Val | Pro | Ala | Met | Leu | Ser | His | Phe | Ile | Ser | Asn | Asp | Arg | Ser | Ile | Pro | |
| | | | | 85 | | | | | 90 | | | | | 95 | | |
| Tyr | Lys | Ala | Cys | Leu | Ser | Glu | Leu | Phe | Phe | Phe | His | Leu | Leu | Ala | Gly | |
| | | | 100 | | | | | 105 | | | | | 110 | | | |
| Ala | Asp | Cys | Phe | Leu | Leu | Thr | Ile | Met | Ala | Tyr | Asp | Arg | Tyr | Leu | Ala | |
| | | 115 | | | | | 120 | | | | | 125 | | | | |
| Ile | Cys | Gln | Ser | Leu | Thr | Tyr | Ser | Ser | Arg | Met | Ser | Trp | Gly | Ile | Gln | |
| | 130 | | | | | 135 | | | | | 140 | | | | | |
| Gln | Ala | Leu | Val | Gly | Met | Ser | Trp | Val | Phe | Ser | Phe | Thr | Asn | Ala | Leu | |
| 145 | | | | | 150 | | | | | 155 | | | | | 160 | |
| Thr | Gln | Thr | Val | Ala | Leu | Ser | Pro | Leu | Asn | Phe | Cys | Gly | Pro | Asn | Val | |
| | | | | 165 | | | | | 170 | | | | | 175 | | |
| Ile | Asn | His | Phe | Tyr | Cys | Asp | Leu | Pro | Gln | Pro | Phe | Gln | Leu | Ser | Cys | |
| | | | 180 | | | | | 185 | | | | | 190 | | | |
| Ala | Ser | Val | His | Leu | Asn | Gly | Gln | Leu | Leu | Phe | Val | Ala | Ala | Ala | Phe | |
| | | 195 | | | | | 200 | | | | | 205 | | | | |
| Met | Gly | Val | Ala | Pro | Leu | Val | Leu | Ile | Thr | Val | Ser | Tyr | Ala | His | Val | |
| | 210 | | | | | 215 | | | | | 220 | | | | | |
| Ala | Ala | Ala | Val | Leu | Arg | Ile | Arg | Ser | Ala | Glu | Gly | Lys | Lys | Lys | Ala | |
| 225 | | | | | 230 | | | | | 235 | | | | | 240 | |

<210> 1956
<211> 230
<212> PRT
<213> Unknown (H38g874 protein)

<400> 1956

<210> 1957
<211> 331

<212> PRT

<213> Unknown (H38g875 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(331)

<223> Xaa = Any Amino Acid

<400> 1957

```

His Thr Glu Pro Arg Asn Leu Thr Ser Val Xaa Glu Phe Leu Leu Leu
 1          5          10          15
Gly Leu Ser Glu Asp Pro Glu Leu Gln Pro Leu Leu Ala Leu Leu Ser
 20          25          30
Leu Ser Leu Ser Met His Leu Val Met Val Leu Arg Asn Leu Leu Asn
 35          40          45
Ile Leu Ala Val Ser Ser Asp Ser Pro Leu His Thr Pro Thr Tyr Phe
 50          55          60
Phe Leu Ser Asn Leu Cys Trp Ala Asp Ile Gly Phe Thr Ser Ala Thr
 65          70          75          80
Val Pro Asn Met Ile Val Asp Met Gln Ser His Ser Arg Val Ile Ser
 85          90          95
His Ala Asp Cys Leu Thr Gln Ile Ser Phe Leu Leu Leu Phe Ala Cys
 100         105         110
Ile Glu Gly Met Leu Leu Thr Val Met Thr Tyr Asp Cys Phe Val Ala
 115         120         125
Ile Cys Cys Pro Leu His Tyr Pro Val Ile Val Asn Pro His Leu Cys
 130         135         140
Val Phe Phe Val Leu Val Ser Phe Phe Leu Ser Leu Leu Asp Ser Gln
 145         150         155         160
Leu His Ser Trp Ile Val Leu Gln Phe Thr Ile Ile Lys Asn Val Glu
 165         170         175
Ile Ser Asn Ser Val Cys Asp Pro Ser Gln Leu Leu Lys Leu Ala Cys
 180         185         190
Ser Asp Ser Val Ile Asn Ser Ile Phe Met His Phe His Asn Thr Met
 195         200         205
Phe Gly Phe Leu Pro Ile Ser Gly Ile Leu Val Ser Tyr Tyr Lys Ile
 210         215         220
Val Pro Ser Ile Leu Arg Ile Ser Ser Ser Asp Gly Lys Tyr Lys Ala
 225         230         235         240
Phe Ser Thr Cys Gly Ser His Leu Ala Val Val Cys Xaa Phe Tyr Gly
 245         250         255
Thr Gly Ile Gly Val Tyr Leu Thr Ser Ala Leu Ser Pro Pro Pro Arg
 260         265         270
Asn Gly Val Val Ala Ser Val Met Tyr Ala Val Val Thr Pro Met Leu
 275         280         285
Asn Leu Phe Ile Tyr Ser Leu Arg Asn Arg Asp Ile Gln Ser Ala Leu
 290         295         300
Trp Arg Leu Leu Ser Arg Thr Val Glu Ser His Asp Leu Phe His Pro
 305         310         315         320
Phe Ser Cys Val Gly Lys Gly Asn His Ile Lys
 325         330

```

<210> 1958

<211> 322

<212> PRT

<213> Unknown (H38g876 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(322)

<223> Xaa = Any Amino Acid

<400> 1958

```

His Arg Glu Pro Arg Asn Leu Thr Gly Val Xaa Glu Phe Leu Leu Leu
 1           5           10           15
Gly Leu Ser Glu Asp Pro Glu Leu Gln Pro Ile Leu Ala Leu Leu Ser
 20           25           30
Leu Ser Leu Ser Met Tyr Leu Val Thr Val Leu Arg Asn Leu Leu Ser
 35           40           45
Ile Leu Ala Val Arg Ser Asp Ser Pro Leu His Thr Pro Ile Tyr Phe
 50           55           60
Phe Leu Ser Asn Leu Cys Trp Ala Asp Ile Gly Phe Thr Ser Ala Thr
 65           70           75           80
Val Pro Lys Met Ile Val Asp Met Gln Ser His Ser Arg Val Ile Ser
 85           90           95
His Ala Gly Cys Leu Thr Gln Met Ser Phe Leu Val Leu Phe Ala Cys
 100          105          110
Ile Glu Gly Met Leu Leu Thr Val Met Ala Tyr Asp Cys Phe Val Ala
 115          120          125
Ile Cys His Pro Leu His Tyr Pro Val Ile Val Asn Pro His Leu Cys
 130          135          140
Val Phe Phe Val Leu Val Ser Phe Phe Leu Ser Leu Leu Asp Ser Gln
 145          150          155          160
Leu His Ser Trp Ile Val Leu Gln Phe Thr Ile Ile Lys Asn Val Glu
 165          170          175
Ile Ser Asn Phe Val Cys Asp Pro Ser Gln Leu Leu Lys Phe Ala Cys
 180          185          190
Ser Asp Ser Ile Ile Asn Ser Ile Phe Ile Tyr Phe His Ser Thr Met
 195          200          205
Phe Gly Phe Leu Pro Ile Ser Gly Ile Leu Leu Ser Tyr Tyr Lys Ile
 210          215          220
Ile Pro Ser Ile Leu Arg Ile Ser Ser Ser Asp Gly Lys Tyr Lys Ala
 225          230          235          240
Phe Ser Thr Cys Gly Ser His Leu Ala Val Val Cys Xaa Phe Tyr Gly
 245          250          255
Thr Asp Ile Gly Met Tyr Leu Thr Ser Ala Val Ser Pro Pro Pro Arg
 260          265          270
Asn Gly Val Val Ala Ser Val Met Tyr Ala Val Val Thr Pro Met Leu
 275          280          285
Asn Leu Phe Ile Tyr Ser Leu Arg Asn Arg Asp Ile Gln Ser Ala Leu
 290          295          300
Trp Gly Leu His Ser Arg Thr Val Glu Ser His Asp Leu Phe His Pro
 305          310          315          320
Phe Ser

```

<210> 1959

<211> 315

<212> PRT

<213> Unknown (H38g877 protein)

<220>

<223> Synthetic construct

<400> 1959

```

Met Gln Pro Glu Ser Gly Ala Asn Gly Thr Val Ile Ala Glu Phe Ile
 1           5           10           15
Leu Leu Gly Leu Leu Glu Ala Pro Gly Leu Gln Pro Val Val Phe Val

```

```
<210> 1960
<211> 323
<212> PRT
<213> Unknown (H38q878 protein)
```

<220>
<223> Synthetic construct

| | | | | | | | | | | | | | | | |
|------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| <400> 1960 | | | | | | | | | | | | | | | |
| Met | Thr | Asp | Tyr | Asn | Glu | Pro | Met | Glu | Pro | Met | Glu | Asp | Lys | Asn | Gln |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |
| Thr | Val | Val | Thr | Glu | Phe | Leu | Leu | Leu | Gly | Leu | Thr | Asp | His | Pro | Tyr |
| | | | 20 | | | | | 25 | | | | | 30 | | |
| Gln | Lys | Ile | Val | Leu | Phe | Phe | Met | Phe | Leu | Phe | Val | Tyr | Leu | Ile | Thr |
| | | 35 | | | | | 40 | | | | | 45 | | | |
| Leu | Gly | Gly | Asn | Leu | Gly | Met | Ile | Thr | Leu | Ile | Trp | Ile | Asp | Pro | Arg |
| | 50 | | | | | 55 | | | | | 60 | | | | |
| Leu | His | Thr | Pro | Met | Tyr | Phe | Phe | Leu | Arg | His | Leu | Ser | Phe | Val | Asp |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |
| Ile | Cys | Ser | Ser | Ser | Ser | Val | Val | Pro | Lys | Met | Leu | Cys | Asn | Ile | Phe |
| | | | | 85 | | | | | 90 | | | | | 95 | |
| Ala | Glu | Lys | Lys | Asp | Ile | Thr | Phe | Leu | Gly | Cys | Ala | Ala | Gln | Met | Trp |
| | | | 100 | | | | | 105 | | | | | 110 | | |

```

Phe Phe Gly Leu Phe Glu Ala Ala Glu Cys Phe Leu Leu Ala Ala Met
    115                120                125
Ala Tyr Asp Arg Tyr Val Ala Ile Cys Lys Pro Leu Leu Tyr Thr Leu
    130                135                140
Ile Met Ser Gln Gln Val Cys Met Gln Leu Val Val Gly Pro Tyr Ala
    145                150                155                160
Met Ala Leu Ile Ser Thr Met Thr His Thr Ile Phe Thr Phe Cys Leu
    165                170                175
Pro Phe Cys Gly Ser Asn Ile Ile Asn His Phe Phe Cys Asp Ile Phe
    180                185                190
Pro Leu Leu Ser Leu Ala Cys Ala Asp Thr Trp Val Asn Lys Phe Val
    195                200                205
Leu Phe Val Leu Ala Gly Ala Ile Gly Val Leu Ser Gly Leu Ile Ile
    210                215                220
Met Val Ser Tyr Ile Cys Ile Leu Met Thr Ile Leu Lys Ile Gln Thr
    225                230                235                240
Ala Asp Gly Lys Gln Lys Ala Phe Phe Thr Cys Phe Ser His Leu Ala
    245                250                255
Ala Val Ser Ile Leu Tyr Gly Thr Leu Phe Leu Ile Tyr Val Arg Pro
    260                265                270
Ser Ser Ser Ser Ser Leu Gly Ile Tyr Lys Val Ile Ser Leu Phe Tyr
    275                280                285
Thr Val Val Ile Pro Met Val Asn Pro Leu Ile Tyr Ser Leu Arg Asn
    290                295                300
Lys Glu Val Lys Asp Ala Phe Arg Arg Lys Ile Glu Arg Lys Lys Phe
    305                310                315                320
Ile Ile Gly

```

<210> 1961

<211> 229

<212> PRT

<213> Unknown (H38g879 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(229)

<223> Xaa = Any Amino Acid

<400> 1961

```

Phe Phe Ser Leu Asp Leu Ile Arg Ser Gln Ala Asn Thr Met Ser Lys
  1          5          10          15
Lys His Trp Thr Ala Ile Ala Glu Phe Ile Pro Leu Gly Pro Thr Asp
    20          25          30
Gln Ala Glu Leu Gln Leu Val Leu Phe Phe Phe Thr Phe Leu Val Ile
    35          40          45
Tyr Leu Ile Met Val Met Gly Asn Leu Ser Met Ile Leu Ile Ile Arg
    50          55          60
Ser Asp Xaa Lys Leu His Ile Pro Met Tyr Phe Phe Leu Ser His Leu
    65          70          75          80
Ser Phe Ala Val Leu Cys Tyr Thr Leu Asn Val Thr Pro Gln Ile Leu
    85          90          95
Val Asn Phe Leu Ser Lys Arg Lys Thr Ile Phe Phe Ile Gly Cys Val
    100         105         110
Ser Val Leu Xaa Phe Tyr Phe Phe Ile Val Leu Ile Ile Arg Asp Tyr
    115         120         125
His Met Leu Thr Val Met Ala Asn Asp Cys Tyr Met Ala Ile Cys Lys
    130         135         140
Pro Leu Leu Tyr Gly Ser Lys Met Ser Arg Phe Val Cys Leu Ser Leu

```

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 145 | | 150 | | 155 | | 160 | | | | | | | | | |
| Ala | Ser | Val | Ser | Xaa | Ile | Tyr | Gly | Phe | Ala | Asn | Tyr | Leu | Ala | Gln | Thr |
| | | | | 165 | | | | | 170 | | | | | 175 | |
| Ile | Arg | Met | Leu | Leu | Leu | Ser | Phe | Xaa | Gly | Ser | Asn | Glu | Ile | Asn | His |
| | | | | 180 | | | | 185 | | | | | | 190 | |
| Phe | Asp | Cys | Ala | Asp | Pro | Pro | Leu | Leu | Val | Leu | Pro | Cys | Ala | Gly | Thr |
| | | | 195 | | | | 200 | | | | | 205 | | | |
| Cys | Val | Lys | Xaa | Ile | Ile | Met | Leu | Met | Glu | Pro | His | Cys | Leu | Leu | Lys |
| | | 210 | | | | 215 | | | | | 220 | | | | |
| Pro | Gly | Tyr | Ile | Leu | | | | | | | | | | | |
| 225 | | | | | | | | | | | | | | | |

<210> 1962

<211> 286

<212> PRT

<213> Unknown (H38g880 protein)

<220>

<223> Synthetic construct

<400> 1962

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Tyr | Leu | Val | Thr | Val | Leu | Arg | Asn | Leu | Leu | Ser | Ile | Leu | Ala | Val |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |
| Ser | Ser | Asp | Ser | His | Pro | His | Thr | Pro | Met | Tyr | Phe | Phe | Leu | Ser | Asn |
| | | | 20 | | | | | 25 | | | | | 30 | | |
| Leu | Cys | Trp | Ala | Asp | Ile | Gly | Phe | Thr | Leu | Ala | Thr | Val | Pro | Lys | Met |
| | | 35 | | | | 40 | | | | | | 45 | | | |
| Ile | Val | Asp | Met | Gly | Ser | His | Ser | Arg | Val | Ile | Ser | Tyr | Gly | Gly | Cys |
| | | 50 | | | | 55 | | | | | 60 | | | | |
| Leu | Thr | Gln | Met | Ser | Phe | Leu | Val | Leu | Phe | Ala | Cys | Ile | Val | Asp | Met |
| 65 | | | | | 70 | | | | 75 | | | | | 80 | |
| Phe | Leu | Thr | Val | Met | Ala | Tyr | Asp | Cys | Phe | Val | Ala | Ile | Cys | Arg | Pro |
| | | | 85 | | | | | 90 | | | | | | 95 | |
| Leu | His | Tyr | Pro | Val | Ile | Val | Asn | Pro | His | Leu | Cys | Val | Phe | Phe | Val |
| | | | 100 | | | | | 105 | | | | | 110 | | |
| Leu | Val | Ser | Phe | Phe | Leu | Ser | Leu | Leu | Asp | Ser | Gln | Leu | His | Ser | Trp |
| | | 115 | | | | 120 | | | | | | 125 | | | |
| Ile | Val | Leu | Gln | Phe | Thr | Phe | Phe | Lys | Asn | Val | Glu | Ile | Ser | Asn | Phe |
| | | 130 | | | | 135 | | | | | 140 | | | | |
| Val | Cys | Glu | Pro | Ser | Gln | Leu | Leu | Lys | Leu | Ala | Ser | Tyr | Asp | Ser | Val |
| 145 | | | | | 150 | | | | 155 | | | | | 160 | |
| Ile | Asn | Ser | Ile | Phe | Ile | Tyr | Phe | Asp | Asn | Thr | Met | Phe | Gly | Phe | Leu |
| | | | 165 | | | | | 170 | | | | | | 175 | |
| Pro | Ile | Ser | Gly | Ile | Leu | Leu | Ser | Tyr | Tyr | Lys | Ile | Val | Pro | Ser | Ile |
| | | | 180 | | | | 185 | | | | | | | 190 | |
| Leu | Arg | Ile | Ser | Ser | Ser | Asp | Gly | Lys | Tyr | Lys | Ala | Phe | Ser | Ala | Cys |
| | | 195 | | | | 200 | | | | | | 205 | | | |
| Gly | Cys | His | Leu | Ala | Val | Val | Cys | Leu | Phe | Tyr | Gly | Thr | Gly | Ile | Gly |
| | | 210 | | | | 215 | | | | | 220 | | | | |
| Val | Tyr | Leu | Thr | Ser | Ala | Val | Ala | Pro | Pro | Leu | Arg | Asn | Gly | Met | Val |
| 225 | | | | | 230 | | | | 235 | | | | | 240 | |
| Ala | Ser | Val | Met | Tyr | Ala | Val | Val | Thr | Pro | Met | Leu | Asn | Pro | Phe | Ile |
| | | | 245 | | | | | 250 | | | | | | 255 | |
| Tyr | Ser | Leu | Arg | Asn | Arg | Asp | Ile | Gln | Ser | Ala | Leu | Trp | Arg | Val | Cys |
| | | | 260 | | | 265 | | | | | | | 270 | | |
| Asn | Lys | Thr | Val | Glu | Ser | His | Asp | Leu | Phe | His | Pro | Phe | Ser | | |
| | | 275 | | | | 280 | | | | | | 285 | | | |

<210> 1963

<211> 325

<212> PRT

<213> Unknown (H38g881 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(325)

<223> Xaa = Any Amino Acid

<400> 1963

```

Met Ala Asn Glu Asn Tyr Thr Lys Val Thr Xaa Phe Ile Phe Thr Gly
 1          5          10          15
Leu Asn Tyr Asn Pro Gln Leu Arg Val Phe Leu Phe Leu Leu Phe Leu
 20          25          30
Thr Thr Phe Tyr Val Ile Asn Val Thr Gly Asn Leu Gly Met Ile Val
 35          40          45
Leu Ile Arg Ile Asp Ser Arg Leu His Thr Pro Met Tyr Phe Phe Leu
 50          55          60
Ser His Leu Ser Phe Val Asp Thr Cys Phe Ser Ser Val Val Ser Pro
 65          70          75          80
Lys Met Leu Thr Asp Phe Phe Val Lys Arg Lys Ala Ile Ser Phe Leu
 85          90          95
Gly Cys Ala Leu Gln Gln Trp Phe Phe Gly Phe Phe Val Ala Ala Asp
100          105          110
Cys Phe Leu Leu Glu Ser Met Ala Tyr Asp Cys Tyr Val Ala Ile Cys
115          120          125
Asn Pro Leu Leu Tyr Ser Val Ala Met Ser Gln Arg Leu Cys Ile Gln
130          135          140
Leu Val Val Gly Pro Tyr Val Ile Gly Leu Met Asn Thr Met Thr His
145          150          155          160
Thr Thr Asn Ala Phe Cys Leu Pro Phe Cys Gly Pro Asn Val Ile Asn
165          170          175
Pro Phe Phe Cys Asp Met Ser Pro Leu Leu Ser Leu Val Cys Ala Asp
180          185          190
Thr Arg Leu Asn Lys Leu Ala Val Phe Ile Val Ala Gly Ala Val Gly
195          200          205
Val Phe Ser Gly Leu Thr Ile Leu Ile Ser Tyr Ile Tyr Ile Leu Met
210          215          220
Ala Ile Leu Arg Ile Arg Ser Ala Asp Gly Arg Cys Lys Thr Phe Ser
225          230          235          240
Thr Cys Ser Ser His Leu Thr Ala Val Phe Ile Ser Tyr Gly Thr Leu
245          250          255
Phe Phe Ile Tyr Val His Pro Ser Ala Thr Phe Ser Leu Asp Leu Asn
260          265          270
Lys Val Val Ser Val Phe Tyr Thr Ala Val Ile Pro Met Leu Asn Pro
275          280          285
Leu Ile Tyr Ser Leu Arg Asn Lys Glu Val Lys Asp Ala Ile His Arg
290          295          300
Thr Val Thr Gln Arg Lys Phe Cys Lys Ala Xaa Ile Leu Ile Gln Lys
305          310          315          320
Glu Leu Gly Arg Lys
          325

```

<210> 1964

<211> 314

<212> PRT

<213> Unknown (H38g882 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(314)

<223> Xaa = Any Amino Acid

<400> 1964

```

Met Glu Thr Glu Asn Asn Thr Thr Val Thr Glu Phe Ile Ile Leu Gly
 1          5          10          15
Leu Thr Asp Asn Pro Met Leu Cys Ala Ile Phe Phe Val Phe Phe Leu
          20          25          30
Ala Val Tyr Ile Val Thr Ile Pro Gly Asn Ile Ser Ile Ile Leu Leu
          35          40          45
Ile Gln Ser Ser Pro Gln Leu His Thr Leu Met Tyr Leu Phe Leu Ser
          50          55          60
His Leu Ala Ser Val Asp Ile Gly Tyr Ser Ile Ser Val Thr Pro Ile
65          70          75          80
Ile Leu Ile Asn Phe Leu Arg Glu Lys Thr Thr Ile Pro Val Thr Gly
          85          90          95
Cys Ile Ala Gln Leu Gly Ser Asp Val Met Phe Gly Thr Thr Glu Cys
          100          105          110
Phe Leu Leu Asp His Tyr Val Ala Ile Cys Ser Pro Leu Leu Tyr Ser
          115          120          125
Ile Gln Met Pro Pro Val Val Cys Phe Leu Leu Leu Gly Ala Ser Tyr
          130          135          140
Leu Gly Gly Cys Leu Asn Ala Ser Ser Phe Thr Gly Cys Leu Met Asn
145          150          155          160
Leu Ser Phe Cys Gly Pro Asn Lys Ile Asn His Phe Phe Cys Asp Leu
          165          170          175
Phe Pro Leu Leu Lys Leu Ser Cys Gly His Val Tyr Ile Ala Glu Ile
          180          185          190
Ser Pro Ala Ile Ser Ser Ala Ser Val Leu Ile Ser Thr Leu Phe Thr
          195          200          205
Ile Ile Val Ser Tyr Ile Tyr Ile Leu His Ser Ile Leu Lys Val Cys
          210          215          220
Ser Thr Glu Gly Arg Lys Lys Ala Phe Ser Thr Cys Ala Ser His Leu
225          230          235          240
Thr Ala Val Thr Leu Phe Tyr Gly Thr Ile Leu Phe Val Tyr Val Met
          245          250          255
Pro Lys Ser Ser Tyr Ser Ala Asp Gln Val Lys Val Ala Phe Val Ile
          260          265          270
Tyr Thr Val Val Ile Pro Met Leu Asn Pro Leu Ile Tyr Ser Leu Arg
          275          280          285
Asn Lys Glu Val Lys Glu Ala Met Arg Lys Leu Met Ala Arg Thr His
          290          295          300
Trp Phe Ser Xaa Ile Lys Ser Val Xaa Ser
305          310

```

<210> 1965

<211> 202

<212> PRT

<213> Unknown (H38g883 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(202)

<223> Xaa = Any Amino Acid

<400> 1965

```

Ile Phe Ala Ile Leu Thr Thr Ile Asp Cys Cys Val Phe Val Trp Glu
 1          5          10          15

```

Phe Leu Glu Cys Thr Val Phe Val Asn Lys Arg Ala Cys Ala Gln Leu
 20 25 30
 Ala Cys Gly Ala Phe Cys Ile Gly Leu Ile Met Thr Val Val Xaa Ile
 35 40 45
 Thr Thr Val Ser Gln Arg Tyr Lys Arg Ser Thr Tyr Ala Ile Val Asp
 50 55 60
 Cys Phe Leu Phe Asp Thr Leu Leu Val Met Lys Leu Ser Cys Ile Asp
 65 70 75 80
 Asn Thr Ile Tyr Glu Ile Ile Gln Tyr Phe Ile His His Thr Cys Val
 85 90 95
 Gln Val Ser Met Gly Leu Val Cys Ile Ser Tyr Ile Asp Ile Pro Val
 100 105 110
 Thr Ser Ile Val Leu Arg Ile Ser Xaa Ser Glu Val Phe Ala Thr Cys
 115 120 125
 Val Pro Gln Pro Pro Pro His His Gly His Cys Leu Tyr Val Cys Ala
 130 135 140
 Cys Thr Ala Tyr Leu Lys His Lys Pro Met Asn Ser Ile Glu Lys Gly
 145 150 155 160
 Leu Leu Xaa Glu Thr Tyr Ile Ile Ile Ile His Ser Ala Ser Gly Pro
 165 170 175
 Val Val Tyr Thr Leu Arg Tyr Met Glu Ala Lys Asp Thr Met Tyr Arg
 180 185 190
 Ala Val Asp Arg Asn Ile Ser Xaa Gln Ile
 195 200

<210> 1966

<211> 315

<212> PRT

<213> Unknown (H38g884 protein)

<220>

<223> Synthetic construct

<400> 1966

Met Glu Pro Glu Ala Gly Thr Asn Arg Thr Ala Val Ala Glu Phe Ile
 1 5 10 15
 Leu Leu Gly Leu Val Gln Thr Glu Glu Met Gln Pro Val Val Phe Val
 20 25 30
 Leu Leu Leu Phe Ala Tyr Leu Val Thr Thr Gly Gly Asn Leu Ser Ile
 35 40 45
 Leu Ala Ala Val Leu Val Glu Pro Lys Leu His Ala Pro Met Tyr Phe
 50 55 60
 Phe Leu Gly Asn Leu Ser Val Leu Asp Val Gly Cys Ile Thr Val Thr
 65 70 75 80
 Val Pro Ala Met Leu Gly Arg Leu Leu Ser His Lys Ser Thr Ile Ser
 85 90 95
 Tyr Asp Ala Cys Leu Ser Gln Leu Phe Phe Phe His Leu Leu Ala Gly
 100 105 110
 Met Asp Cys Phe Leu Leu Thr Ala Met Ala Tyr Asp Arg Leu Leu Ala
 115 120 125
 Ile Cys Gln Pro Leu Thr Tyr Ser Thr Arg Met Ser Gln Thr Val Gln
 130 135 140
 Arg Met Leu Val Ala Ala Ser Leu Ala Cys Ala Phe Thr Asn Ala Leu
 145 150 155 160
 Thr His Thr Val Ala Met Ser Thr Leu Asn Phe Cys Gly Pro Asn Glu
 165 170 175
 Val Asn His Phe Tyr Cys Asp Leu Pro Gln Leu Phe Gln Leu Ser Cys
 180 185 190
 Ser Ser Thr Gln Leu Asn Glu Leu Leu Leu Phe Ala Val Gly Phe Ile
 195 200 205
 Met Ala Gly Thr Pro Leu Val Leu Ile Ile Thr Ala Tyr Ser His Val

| | | |
|---|---|-----|
| 210 | 215 | 220 |
| Ala Ala Ala Val Leu Arg | Ile Arg Ser Val Glu Gly Arg Lys Lys Ala | |
| 225 | 230 | 235 |
| Phe Ser Thr Cys Gly Ser His Leu Thr Val Val Cys Leu Phe Phe Gly | | 240 |
| | 245 | 250 |
| Arg Gly Ile Phe Asn Tyr Met Arg Leu Gly Ser Glu Glu Ala Ser Asp | | 255 |
| | 260 | 265 |
| Lys Asp Lys Gly Val Gly Val Phe Asn Thr Val Ile Asn Pro Met Leu | | 270 |
| | 275 | 280 |
| Asn Pro Leu Ile Tyr Ser Leu Arg Asn Pro Asp Val Gln Gly Ala Leu | | 285 |
| | 290 | 295 |
| Trp Gln Ile Phe Leu Gly Arg Arg Ser Leu Thr | | 300 |
| 305 | 310 | 315 |

<210> 1967

<211> 309

<212> PRT

<213> Unknown (H38g885 protein)

<220>

<223> Synthetic construct

<400> 1967

| | |
|---|--|
| Met Lys Arg Lys Asn Phe Thr Glu Val Ser Glu Phe Ile Phe Leu Gly | |
| 1 5 10 15 | |
| Phe Ser Ser Phe Gly Lys His Gln Ile Thr Leu Phe Val Val Phe Leu | |
| 20 25 30 | |
| Thr Val Tyr Ile Leu Thr Leu Val Ala Asn Ile Ile Ile Val Thr Ile | |
| 35 40 45 | |
| Ile Cys Ile Asp His His Leu His Thr Pro Met Tyr Phe Phe Leu Ser | |
| 50 55 60 | |
| Met Leu Ala Ser Ser Glu Thr Val Tyr Thr Leu Val Ile Val Pro Arg | |
| 65 70 75 80 | |
| Met Leu Leu Ser Leu Ile Phe His Asn Gln Pro Ile Ser Leu Ala Gly | |
| 85 90 95 | |
| Cys Ala Thr Gln Met Phe Phe Phe Val Ile Leu Ala Thr Asn Asn Cys | |
| 100 105 110 | |
| Phe Leu Leu Thr Ala Met Gly Tyr Asp Arg Tyr Val Ala Ile Cys Arg | |
| 115 120 125 | |
| Pro Leu Arg Tyr Thr Val Ile Met Ser Lys Gly Leu Cys Ala Gln Leu | |
| 130 135 140 | |
| Val Cys Gly Ser Phe Gly Ile Gly Leu Thr Met Ala Val Leu His Val | |
| 145 150 155 160 | |
| Thr Ala Met Phe Asn Leu Pro Phe Cys Gly Thr Val Val Asp His Phe | |
| 165 170 175 | |
| Phe Cys Asp Ile Tyr Pro Val Met Lys Leu Ser Cys Ile Asp Thr Thr | |
| 180 185 190 | |
| Ile Asn Glu Ile Ile Asn Tyr Gly Val Ser Ser Phe Val Ile Phe Val | |
| 195 200 205 | |
| Pro Ile Gly Leu Ile Phe Ile Ser Tyr Val Leu Val Ile Ser Ser Ile | |
| 210 215 220 | |
| Leu Gln Ile Ala Ser Ala Glu Gly Arg Lys Lys Thr Phe Ala Thr Cys | |
| 225 230 235 240 | |
| Val Ser His Leu Thr Val Val Ile Val His Cys Gly Cys Ala Ser Ile | |
| 245 250 255 | |
| Ala Tyr Leu Lys Pro Lys Ser Glu Ser Ser Ile Glu Lys Asp Leu Val | |
| 260 265 270 | |
| Leu Ser Val Thr Tyr Thr Ile Ile Thr Pro Leu Leu Asn Pro Val Val | |
| 275 280 285 | |
| Tyr Ser Leu Arg Asn Lys Glu Val Lys Asp Ala Leu Cys Arg Val Val | |
| 290 295 300 | |

Gly Arg Asn Ile Ser
305

<210> 1968

<211> 320

<212> PRT

<213> Unknown (H38g886 protein)

<220>

<223> Synthetic construct

<400> 1968

```

Met Leu Gln Arg Val Gly Glu Met Asp Gly Gly Asn Gln Ser Glu Gly
 1           5           10           15
Ser Glu Phe Leu Leu Gly Ile Ser Glu Ser Pro Glu Gln Gln
      20           25           30
Met Leu Phe Trp Met Phe Leu Val Arg Tyr Leu Val Thr Val Leu Gly
      35           40           45
Asn Val Leu Ile Ile Leu Ala Ile Ser Ser Asp Ser Arg Leu His Thr
      50           55           60
Pro Met Tyr Phe Phe Leu Ala Asn Leu Ser Phe Thr Asp Leu Phe Phe
      65           70           75           80
Val Thr Asn Thr Ile Pro Lys Met Leu Val Asn Leu Gln Ser Gln Asn
      85           90           95
Lys Ala Ile Ser Tyr Thr Gly Cys Leu Thr Gln Leu Tyr Phe Leu Val
      100          105          110
Ser Leu Val Ala Leu Asp Asn Leu Asn Leu Ala Val Met Ala Tyr Asp
      115          120          125
Arg Tyr Val Ala Ile Cys Arg Pro Leu His Tyr Val Thr Ala Met Ile
      130          135          140
Pro Gly Leu Cys Ile Leu Leu Leu Ser Leu Cys Trp Val Phe Ser Ala
      145          150          155          160
Leu Tyr Gly Leu Ile His Ile Leu Leu Met Thr Arg Val Thr Phe Cys
      165          170          175
Gly Ser Gln Lys Ile His Tyr Leu Phe Cys Glu Met Tyr Phe Leu Leu
      180          185          190
Arg Leu Ala Cys Ser Asn Ile His Val Asn His Thr Val Leu Val Ala
      195          200          205
Thr Gly Cys Phe Ile Phe Leu Ile Pro Leu Gly Phe Met Ile Thr Ser
      210          215          220
Tyr Ala Arg Ile Val Arg Ala Ile Leu Gln Ile Pro Ser Ala Thr Gly
      225          230          235          240
Lys Tyr Lys Ala Phe Ser Thr Cys Ala Ser His Leu Ala Val Val Ser
      245          250          255
Leu Phe Tyr Gly Thr Leu Gly Met Val Tyr Leu Gln Pro Leu Gln Thr
      260          265          270
Tyr Ser Met Lys Asp Ser Val Ala Thr Val Met Tyr Ala Val Val Thr
      275          280          285
Pro Met Ile Asn Pro Phe Ile Tyr Ser Leu Arg Asn Lys Asp Met His
      290          295          300
Gly Ala Leu Gly Arg Leu Arg Gln Gly Lys Ala Phe Gln Lys Leu Thr
      305          310          315          320

```

<210> 1969

<211> 276

<212> PRT

<213> Unknown (H38g887 protein)

<220>

<223> Synthetic construct

<400> 1969

```

Met Arg Arg Lys Asn Leu Thr Glu Val Thr Glu Phe Val Phe Leu Gly
 1           5           10           15
Phe Ser Arg Phe His Lys His His Ile Thr Leu Phe Val Val Phe Leu
 20           25           30
Ile Leu Tyr Thr Leu Thr Val Ala Gly Asn Ala Ile Ile Met Thr Ile
 35           40           45
Ile Cys Ile Asp Arg His Leu His Thr Pro Met Tyr Phe Phe Leu Ser
 50           55           60
Met Leu Ala Ser Ser Lys Thr Val Tyr Thr Leu Phe Ile Ile Pro Gln
 65           70           75           80
Met Leu Ser Ser Phe Val Thr Gln Thr Gln Pro Ile Ser Leu Ala Gly
 85           90           95
Cys Thr Thr Gln Thr Phe Phe Phe Val Thr Leu Ala Ile Asn Asn Cys
 100          105          110
Phe Leu Leu Thr Val Met Gly Tyr Asp His Tyr Met Ala Ile Cys Asn
 115          120          125
Pro Leu Arg Tyr Arg Val Ile Thr Ser Lys Lys Val Cys Val Gln Leu
 130          135          140
Val Cys Gly Ala Phe Ser Ile Gly Leu Ala Met Ala Ala Val Gln Val
 145          150          155          160
Thr Ser Ile Phe Thr Leu Pro Phe Cys His Thr Val Val Gly His Phe
 165          170          175
Phe Cys Asp Ile Leu Pro Val Met Lys Leu Ser Cys Ile Asn Thr Thr
 180          185          190
Ile Asn Glu Ile Ile Asn Phe Val Val Arg Leu Phe Val Ile Leu Val
 195          200          205
Pro Met Gly Leu Val Phe Ile Ser Tyr Val Leu Ile Ile Ser Thr Val
 210          215          220
Leu Lys Ile Ala Ser Ala Glu Gly Trp Lys Lys Thr Phe Ala Thr Cys
 225          230          235          240
Ala Phe His Leu Thr Val Val Ile Val His Tyr Gly Cys Ala Ser Ile
 245          250          255
Ala Tyr Leu Met Pro Lys Ser Glu Asn Ser Ile Glu Gln Asp Leu Leu
 260          265          270
Leu Ser Val Thr
 275

```

<210> 1970

<211> 312

<212> PRT

<213> Unknown (H38g888 protein)

<220>

<223> Synthetic construct

<400> 1970

```

Met Asp Gly Asp Asn Gln Ser Glu Asn Ser Gln Phe Leu Leu Leu Gly
 1           5           10           15
Ile Ser Glu Ser Pro Glu Gln Gln Gln Ile Leu Phe Trp Met Phe Leu
 20           25           30
Ser Met Tyr Leu Val Thr Val Leu Gly Asn Val Leu Ile Ile Leu Ala
 35           40           45
Ile Ser Ser Asp Ser His Leu His Thr Pro Met Tyr Phe Phe Leu Ala
 50           55           60
Asn Leu Ser Phe Thr Asp Leu Phe Phe Val Thr Asn Thr Ile Pro Lys
 65           70           75           80
Met Leu Val Asn Phe Gln Ser Gln Asn Lys Ala Ile Ser Tyr Ala Gly
 85           90           95
Cys Leu Thr Gln Leu Tyr Phe Leu Val Ser Leu Val Thr Leu Asp Asn
 100          105          110

```

Leu Ile Leu Ala Val Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Cys
 115 120 125
 Pro Leu His Tyr Val Thr Ala Met Ser Pro Gly Leu Cys Val Leu Leu
 130 135 140
 Leu Ser Leu Cys Trp Gly Leu Ser Val Leu Tyr Gly Leu Leu Leu Thr
 145 150 155 160
 Phe Leu Leu Thr Arg Val Thr Phe Cys Gly Pro Arg Glu Ile His Tyr
 165 170 175
 Leu Phe Cys Asp Met Tyr Ile Leu Leu Trp Leu Ala Cys Ser Asn Thr
 180 185 190
 His Ile Ile His Thr Ala Leu Ile Ala Thr Gly Cys Phe Ile Phe Leu
 195 200 205
 Thr Leu Leu Gly Phe Met Thr Thr Ser Tyr Val Arg Ile Val Arg Thr
 210 215 220
 Ile Leu Gln Met Pro Ser Ala Ser Lys Lys Tyr Lys Thr Phe Ser Thr
 225 230 235 240
 Cys Ala Ser His Leu Gly Val Val Ser Leu Phe Tyr Gly Thr Leu Ala
 245 250 255
 Met Val Tyr Leu Gln Pro Leu His Thr Tyr Ser Met Lys Asp Ser Val
 260 265 270
 Ala Thr Val Met Tyr Ala Val Leu Thr Pro Met Met Asn Pro Phe Ile
 275 280 285
 Tyr Ser Leu Arg Asn Lys Asp Met His Gly Ala Pro Gly Arg Val Leu
 290 295 300
 Trp Arg Pro Phe Gln Arg Pro Lys
 305 310

<210> 1971

<211> 299

<212> PRT

<213> Unknown (H38g889 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(299)

<223> Xaa = Any Amino Acid

<400> 1971

Met Ala Asp Gly Asn Tyr Lys Arg Ile Thr Glu Phe Ile Phe Val Gly
 1 5 10 15
 Leu Arg Tyr His Leu Gln Leu Gln Val Phe Leu Phe Leu Pro Phe Leu
 20 25 30
 Pro Phe Tyr Leu Ile Thr Met Thr Glu Asn Leu Gly Met Met Val Arg
 35 40 45
 Ile Trp Leu Asp Ser Cys Phe His Thr Pro Met Tyr Phe Val Leu Ser
 50 55 60
 Tyr Leu Ser Phe Val Asp Ile Cys Phe Ser Ser Val Val Gly His Lys
 65 70 75 80
 Leu Leu Thr Asp Leu Phe Ala Val Arg Lys Ala Ile Ser Phe Leu Gly
 85 90 95
 Cys Pro Leu Gln Gln Trp Phe Phe Gly Phe Phe Val Val Ile Glu Tyr
 100 105 110
 Leu Leu Leu Ala Ser Met Ala Tyr Asp Asn Tyr Val Ala Ile Cys Asn
 115 120 125
 Pro Leu Leu Tyr Ser Val Ala Met Xaa Xaa Arg Leu Cys Ile Gln Leu
 130 135 140
 Val Val Val Arg Tyr Ala Ala Asp Phe Phe Asn Thr Ile Thr His Thr
 145 150 155 160
 Thr Ala Ala Phe His Phe Pro Phe Phe His Ser Asn Ile Ile Asn His

| | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|
| | | | | 165 | | | | | 170 | | | | | 175 | | | |
| Phe | Phe | Cys | Asp | Met | Ser | Leu | Leu | Leu | Ser | Leu | Val | Cys | Ala | Asp | Ala | | |
| | | | 180 | | | | | 185 | | | | | 190 | | | | |
| Arg | Ile | Asn | Lys | Leu | Leu | Val | Phe | Ile | Val | Ala | Gly | Ala | Val | Leu | Val | | |
| | | 195 | | | | | 200 | | | | | 205 | | | | | |
| Val | Ser | Ser | Leu | Thr | Ile | Ile | Ile | Ser | Tyr | Phe | Tyr | Ile | Leu | Thr | Asp | | |
| | 210 | | | | 215 | | | | | | 220 | | | | | | |
| Ile | Leu | Arg | Ile | Cys | Ser | Ala | Asn | Gly | Lys | Asn | Lys | Thr | Phe | Ser | Thr | | |
| 225 | | | | 230 | | | | | 235 | | | | | | 240 | | |
| Cys | Ser | Ser | His | Leu | Thr | Ala | Val | Ser | Ile | Phe | Tyr | Gly | Ser | Leu | Phe | | |
| | | | 245 | | | | | 250 | | | | | 255 | | | | |
| Phe | Ser | Tyr | Val | Arg | Pro | Gly | Ala | Thr | Phe | Tyr | Pro | Glu | Leu | Asn | Lys | | |
| | | | 260 | | | | | 265 | | | | | 270 | | | | |
| Ile | Val | Leu | Val | Phe | Cys | Ile | Ile | Pro | Met | Leu | Lys | Pro | Leu | Ile | Tyr | | |
| | 275 | | | | | 280 | | | | | | 285 | | | | | |
| Ser | Leu | Ile | Asn | Lys | Glu | Val | Ser | Xaa | Pro | Leu | | | | | | | |
| | 290 | | | | | 295 | | | | | | | | | | | |

<210> 1972

<211> 311

<212> PRT

<213> Unknown (H38g890 protein)

<220>

<223> Synthetic construct

<400> 1972

| | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|
| Met | Glu | Lys | Ile | Asn | Asn | Val | Thr | Glu | Phe | Ile | Phe | Trp | Gly | Leu | Ser | | |
| 1 | | | 5 | | | | | 10 | | | | | 15 | | | | |
| Gln | Ser | Pro | Glu | Ile | Glu | Lys | Val | Cys | Phe | Val | Val | Phe | Ser | Phe | Phe | | |
| | | 20 | | | | | | 25 | | | | 30 | | | | | |
| Tyr | Ile | Ile | Ile | Leu | Leu | Gly | Asn | Leu | Leu | Ile | Met | Leu | Thr | Val | Cys | | |
| | 35 | | | | | 40 | | | | | 45 | | | | | | |
| Leu | Ser | Asn | Leu | Phe | Lys | Ser | Pro | Met | Tyr | Phe | Phe | Leu | Ser | Phe | Leu | | |
| | 50 | | | | 55 | | | | | 60 | | | | | | | |
| Ser | Phe | Val | Asp | Ile | Cys | Tyr | Ser | Ser | Val | Thr | Ala | Pro | Lys | Met | Ile | | |
| 65 | | | | 70 | | | | | 75 | | | | | 80 | | | |
| Val | Asp | Leu | Leu | Ala | Lys | Asp | Lys | Thr | Ile | Ser | Tyr | Val | Gly | Cys | Met | | |
| | | | 85 | | | | | 90 | | | | | 95 | | | | |
| Leu | Gln | Leu | Leu | Gly | Val | His | Phe | Phe | Gly | Cys | Thr | Glu | Ile | Phe | Ile | | |
| | | 100 | | | | | | 105 | | | | | 110 | | | | |
| Leu | Thr | Val | Met | Ala | Tyr | Asp | Arg | Tyr | Val | Ala | Ile | Cys | Lys | Pro | Leu | | |
| | 115 | | | | | 120 | | | | | 125 | | | | | | |
| His | Tyr | Met | Thr | Ile | Met | Asn | Arg | Glu | Thr | Cys | Asn | Lys | Met | Leu | Leu | | |
| | 130 | | | | 135 | | | | | | 140 | | | | | | |
| Gly | Thr | Trp | Val | Gly | Gly | Phe | Leu | His | Ser | Ile | Ile | Gln | Val | Ala | Leu | | |
| 145 | | | | 150 | | | | 155 | | | | | | 160 | | | |
| Val | Val | Gln | Leu | Pro | Phe | Cys | Gly | Pro | Asn | Glu | Ile | Asp | His | Tyr | Phe | | |
| | | | 165 | | | | | 170 | | | | | 175 | | | | |
| Cys | Asp | Val | His | Pro | Val | Leu | Lys | Leu | Ala | Cys | Thr | Glu | Thr | Tyr | Ile | | |
| | | 180 | | | | | 185 | | | | | 190 | | | | | |
| Val | Gly | Val | Val | Val | Thr | Ala | Asn | Ser | Gly | Thr | Ile | Ala | Leu | Gly | Ser | | |
| | 195 | | | | | | 200 | | | | | 205 | | | | | |
| Phe | Val | Ile | Leu | Leu | Ile | Ser | Tyr | Ser | Ile | Ile | Leu | Val | Ser | Leu | Arg | | |
| | 210 | | | | 215 | | | | | | 220 | | | | | | |
| Lys | Gln | Ser | Ala | Glu | Gly | Arg | Arg | Lys | Ala | Leu | Ser | Thr | Cys | Gly | Ser | | |
| 225 | | | | 230 | | | | | 235 | | | | | 240 | | | |
| His | Ile | Ala | Met | Val | Val | Ile | Phe | Phe | Gly | Pro | Cys | Thr | Phe | Met | Tyr | | |
| | | | 245 | | | | | 250 | | | | | 255 | | | | |
| Met | Arg | Pro | Asp | Thr | Thr | Phe | Ser | Glu | Asp | Lys | Met | Val | Ala | Val | Phe | | |
| | | | 260 | | | | | 265 | | | | | 270 | | | | |

Tyr Thr Ile Ile Thr Pro Met Leu Asn Pro Leu Ile Tyr Thr Leu Arg
 275 280 285
 Asn Ala Glu Val Lys Asn Ala Met Lys Lys Leu Trp Gly Arg Asn Val
 290 295 300
 Phe Leu Glu Ala Lys Gly Lys
 305 310

<210> 1973
 <211> 318
 <212> PRT
 <213> Unknown (H38g891 protein)

<220>
 <223> Synthetic construct

<221> VARIANT
 <222> (1)...(318)
 <223> Xaa = Any Amino Acid

<400> 1973
 Met Asp Tyr Arg Asn Gln Thr Leu Val Thr Glu Phe Phe Ser Val Gly
 1 5 10 15
 Leu Thr Asn Leu Phe Gln His Lys Ile Ala Leu Phe Leu Val Phe Leu
 20 25 30
 Phe Val Tyr Leu Val Thr Val Pro Gly Asn Leu Gly Met Ile Thr Leu
 35 40 45
 Ile Trp Met Asp Ser Arg Leu Gln Thr Pro Lys Tyr Phe Ser Leu Cys
 50 55 60
 His Leu Ser Phe Val Asp Val Cys Ser Ser Ser Ala Ile Gly Pro Lys
 65 70 75 80
 Met Leu Thr Asp Ile Phe Val Glu Lys Lys Val Ile Ser Phe Gly Cys
 85 90 95
 Val Ala Gln Leu Trp Phe Phe Gly His Phe Val Val Thr Glu Cys Phe
 100 105 110
 Leu Leu Ala Ala Met Ala Tyr Asp Arg Tyr Met Ala Ile Tyr Lys Pro
 115 120 125
 Leu Leu Tyr Thr Leu Ile Met Ser Gln Gln Val Cys Val Gln Leu Val
 130 135 140
 Val Gly Pro Tyr Ala Val Gly Leu Ile Ser Thr Met Thr His Met Thr
 145 150 155 160
 Phe Thr Phe Arg Leu Tyr Cys Gly Pro Asn Ile Ile Asn His Phe
 165 170 175
 Phe Cys Asp Leu Leu Pro Val Leu Ser Leu Ala Tyr Ala Asp Thr His
 180 185 190
 Ile Asn Lys Cys Leu Leu Phe Ile Leu Val Gly Ala Leu Gly Val Leu
 195 200 205
 Ser Gly Val Ile Ile Leu Val Ser Tyr Ile Tyr Ile Val Ile Ala Ile
 210 215 220
 Leu Arg Ile Arg Ser Ala Asp Ala Arg Arg Lys Asp Phe Ser Thr Cys
 225 230 235 240
 Ser Ser His Leu Met Ala Val Ser Ile Leu Tyr Gly Thr Leu Phe Phe
 245 250 255
 Ile Cys Val Cys Pro Ser Ser Ser Phe Ser Ile Asn Ile Asn Lys Val
 260 265 270
 Val Ser Leu Phe Tyr Thr Ala Val Ile Pro Met Leu Asn Pro Leu Ile
 275 280 285
 Tyr Ser Leu Arg Asn Lys Glu Val Lys Asp Ser Phe Ser Lys Lys Phe
 290 295 300
 Glu Arg Lys Lys Phe Leu Ile Gly Arg Xaa Thr Arg Ile Pro
 305 310 315

<210> 1974
 <211> 310
 <212> PRT
 <213> Unknown (H38g892 protein)

<220>
 <223> Synthetic construct

<221> VARIANT
 <222> (1)...(310)
 <223> Xaa = Any Amino Acid

<400> 1974
 Met Val Asn Phe Thr His Val Ser Glu Phe Val Leu Leu Gly Phe Gln
 1 5 10 15
 Gly Gly Pro Gly Met Gln Ala Met Leu Phe Leu Ile Phe Leu Ile Leu
 20 25 30
 Tyr Gly Ile Ala Val Val Gly Asn Leu Gly Met Ile Val Ile Ile Trp
 35 40 45
 Val Asp Ala His Leu His Thr Pro Met Tyr Ala Phe Leu Gln Ser Leu
 50 55 60
 Ser Leu Leu Asp Ile Cys Tyr Ser Ser Thr Ile Ala Pro Arg Ala Leu
 65 70 75 80
 Ala Asn Ser Met Gln Glu Asp His Thr Ile Ser Phe Gly Gly Cys Ala
 85 90 95
 Ala Gln Phe Phe Phe Leu Ser Leu Phe Gly Ile Thr Glu Ala Phe Leu
 100 105 110
 Leu Ala Ala Met Ala Tyr Asp Arg Phe Ile Ala Ile Cys Asn Pro Leu
 115 120 125
 Leu Tyr Ser Val Ser Met Ser His Gln Val Cys Val Leu Leu Ile Ser
 130 135 140
 Gly Ser Tyr Leu Trp Gly Val Val Asn Ala Ile Ala Gln Thr Thr Met
 145 150 155 160
 Thr Phe Arg Leu Pro Phe Cys Gly Ser Asn Glu Ile Asn Asp Phe Phe
 165 170 175
 Cys Asp Val Pro Pro Leu Leu Ser Leu Ser Cys Ser Asp Thr Phe Ile
 180 185 190
 Asn Gln Leu Val Leu Leu Gly Leu Cys Gly Ser Ile Ile Val Ser Thr
 195 200 205
 Phe Leu Ile Val Leu Val Ser Tyr Ile Tyr Ile Ile Ser Thr Ile Leu
 210 215 220
 Arg Ile Pro Thr Met Gln Gly Arg Xaa Lys Ala Phe Ser Thr Cys Ala
 225 230 235 240
 Ser His Leu Thr Gly Val Cys Leu Phe Phe Gly Thr Val Phe Phe Met
 245 250 255
 Tyr Ala Gln Pro Ser Ala Ile Phe Phe Met Glu Gln Ser Lys Ile Val
 260 265 270
 Ser Ile Phe Tyr Thr Met Val Ile Pro Met Leu Asn Pro Leu Ile Tyr
 275 280 285
 Ser Leu Arg Asn Lys Glu Val Lys Gln Ala Leu Arg Arg Ser Met Gln
 290 295 300
 Lys Leu Ser Leu Xaa Ser
 305 310

<210> 1975
 <211> 309
 <212> PRT
 <213> Unknown (H38g893 protein)

<220>
 <223> Synthetic construct

<400> 1975

Met Arg Glu Asn Asn Gln Ser Ser Thr Leu Glu Phe Ile Leu Leu Gly
 1 5 10 15
 Val Thr Gly Gln Gln Glu Gln Glu Asp Phe Phe Tyr Ile Leu Phe Leu
 20 25 30
 Phe Ile Tyr Pro Ile Thr Leu Ile Gly Asn Leu Leu Ile Val Leu Ala
 35 40 45
 Ile Cys Ser Asp Val Arg Leu His Asn Pro Met Tyr Phe Leu Leu Ala
 50 55 60
 Asn Leu Ser Leu Val Asp Ile Phe Phe Ser Ser Val Thr Ile Pro Lys
 65 70 75 80
 Met Leu Ala Asn His Leu Leu Gly Ser Lys Ser Ile Ser Phe Gly Gly
 85 90 95
 Cys Leu Thr Gln Met Tyr Phe Met Ile Ala Leu Gly Asn Thr Asp Ser
 100 105 110
 Tyr Ile Leu Ala Ala Met Ala Tyr Asp Arg Ala Val Ala Ile Ser His
 115 120 125
 Pro Leu His Tyr Thr Thr Ile Met Ser Pro Arg Ser Cys Ile Trp Leu
 130 135 140
 Ile Ala Gly Ser Trp Val Ile Gly Asn Ala Asn Ala Leu Pro His Thr
 145 150 155 160
 Leu Leu Thr Ala Ser Leu Ser Phe Cys Gly Asn Gln Glu Val Ala Asn
 165 170 175
 Phe Tyr Cys Asp Ile Thr Pro Leu Leu Lys Leu Ser Cys Ser Asp Ile
 180 185 190
 His Phe His Val Lys Met Met Tyr Leu Gly Val Gly Ile Phe Ser Val
 195 200 205
 Pro Leu Leu Cys Ile Ile Val Ser Tyr Ile Arg Val Phe Ser Thr Val
 210 215 220
 Phe Gln Val Pro Ser Thr Lys Gly Val Leu Lys Ala Phe Ser Thr Cys
 225 230 235 240
 Gly Ser His Leu Thr Val Val Ser Leu Tyr Tyr Gly Thr Val Met Gly
 245 250 255
 Thr Tyr Phe Arg Pro Leu Thr Asn Tyr Ser Leu Lys Asp Ala Val Ile
 260 265 270
 Thr Val Met Tyr Thr Ala Val Thr Pro Met Leu Asn Pro Phe Ile Tyr
 275 280 285
 Ser Leu Arg Asn Arg Asp Met Lys Ala Ala Leu Arg Lys Leu Phe Asn
 290 295 300
 Lys Arg Ile Ser Ser
 305

<210> 1976

<211> 309

<212> PRT

<213> Unknown (H38g894 protein)

<220>

<223> Synthetic construct

<400> 1976

Met Lys Lys Glu Asn Gln Ser Phe Asn Leu Asp Phe Ile Leu Leu Gly
 1 5 10 15
 Val Thr Ser Gln Gln Glu Gln Asn Asn Val Phe Phe Val Ile Phe Leu
 20 25 30
 Cys Ile Tyr Pro Ile Thr Leu Thr Gly Asn Leu Leu Ile Ile Leu Ala
 35 40 45
 Ile Cys Ala Asp Ile Arg Leu His Asn Pro Met Tyr Phe Leu Leu Ala
 50 55 60
 Asn Leu Ser Leu Val Asp Ile Ile Phe Ser Ser Val Thr Ile Pro Lys

```

65          70          75          80
Val Leu Ala Asn His Leu Leu Gly Ser Lys Phe Ile Ser Phe Gly Gly
      85          90          95
Cys Leu Met Gln Met Tyr Phe Met Ile Ala Leu Ala Lys Ala Asp Ser
      100         105         110
Tyr Thr Leu Ala Ala Met Ala Tyr Asp Arg Ala Val Ala Ile Ser Cys
      115         120         125
Pro Leu His Tyr Thr Thr Ile Met Ser Pro Arg Ser Cys Ile Leu Leu
      130         135         140
Ile Ala Gly Ser Trp Val Ile Gly Asn Thr Ser Ala Leu Pro His Thr
145         150         155         160
Leu Leu Thr Ala Ser Leu Ser Phe Cys Gly Asn Gln Glu Val Ala Asn
      165         170         175
Phe Tyr Cys Asp Ile Met Pro Leu Leu Lys Leu Ser Cys Ser Asp Val
      180         185         190
His Phe Asn Val Lys Met Met Tyr Leu Gly Val Gly Val Phe Ser Leu
      195         200         205
Pro Leu Leu Cys Ile Ile Val Ser Tyr Val Gln Val Phe Ser Thr Val
      210         215         220
Phe Gln Val Pro Ser Thr Lys Ser Leu Phe Lys Ala Phe Cys Thr Cys
225         230         235         240
Gly Ser His Leu Thr Val Val Phe Leu Tyr Tyr Gly Thr Thr Met Gly
      245         250         255
Met Tyr Phe Arg Pro Leu Thr Ser Tyr Ser Pro Lys Asp Ala Val Ile
      260         265         270
Thr Val Met Tyr Val Ala Val Thr Pro Ala Leu Asn Pro Phe Ile Tyr
      275         280         285
Ser Leu Arg Asn Trp Asp Met Lys Ala Ala Leu Gln Lys Leu Phe Ser
      290         295         300
Lys Arg Ile Ser Ser
305

```

<210> 1977

<211> 329

<212> PRT

<213> Unknown (H38g895 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(329)

<223> Xaa = Any Amino Acid

<400> 1977

```

Ala Leu Leu Phe His Ser Tyr Lys His Pro Thr Gln Arg Arg Met Thr
  1          5          10         15
Val Lys Ser His Ser Ile Val Thr Glu Phe Ser Leu Arg Gly Leu Thr
      20         25         30
Lys Gln Pro Asp Leu Gln Leu Phe His Phe Leu Ile Phe Leu Asp Ile
      35         40         45
His Met Val Thr Met Val Gly Asn Leu Gly Met Ile Thr Leu Ile Cys
      50         55         60
Leu Asn Ser Gln Leu His Thr Pro Met Tyr Tyr Phe Phe Ser Asn Leu
65         70         75         80
Ser Leu Leu Asp Leu Cys Tyr Ser Ser Ile Thr Asn Pro Lys Met Leu
      85         90         95
Val Asn Phe Val Leu Lys Lys Ser Ile Ile Ser Tyr Ala Gly Tyr Met
      100        105        110
Ser Xaa Phe Tyr Phe Phe Leu Val Phe Val Ile Ala Arg Cys Tyr Met
      115        120        125

```



```

Leu Met Val Lys Ala Cys Asp His Tyr Val Ala Ile Cys Cys Pro Leu
130                      135                      140
Leu Cys Asn Val Ile Met Ser His Val Thr Cys Ser Leu Met Val Ala
145                      150                      155                      160
Val Val Tyr Thr Met Gly Leu Val Val Ser Thr Ile Glu Thr Gly Leu
165                      170                      175
Ile Leu Lys Leu Pro Tyr Cys Glu Leu Leu Thr Ser Arg Cys Phe Cys
180                      185                      190
Asp Ile Leu Pro Leu Met Lys Leu Ser Xaa Ser Ser Ala Tyr Asp Val
195                      200                      205
Glu Met Ala Val Phe Phe Phe Ala Arg Phe Asn Leu Arg Ile Met Ile
210                      215                      220
Leu Thr Val Leu Val Ser Tyr Thr Phe Ile Leu Phe Ser Ile Leu His
225                      230                      235                      240
Ile Ser Thr Thr Glu Gly Arg Ser Lys Val Phe Ser Thr Cys Ser Phe
245                      250                      255
His Leu Ala Ala Ile Gly Met Phe His Gly Xaa Thr Ala Phe Arg Tyr
260                      265                      270
Leu Lys Pro Ala Ile Thr Ser Ser Leu Ala Gln Glu Asn Val Ala Ser
275                      280                      285
Val Phe Tyr Thr Thr Val Ile Tyr Val Pro Asn Pro Leu Met Tyr Ser
290                      295                      300
Leu Lys Asn Lys Asp Val Lys Ala Ala Met Gln Lys Thr Leu Arg Ser
305                      310                      315                      320
Lys Phe Cys Cys Arg Cys Asn Tyr Leu
325

```

<210> 1978

<211> 316

<212> PRT

<213> Unknown (H38g896 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(316)

<223> Xaa = Any Amino Acid

<400> 1978

```

Leu Leu Glu Gly Gly Asn Gln Thr Ser Thr Phe Glu Phe Leu Leu Trp
1      5      10      15
Gly Leu Ser Asp Gln Pro Gln Gln Gln His Ile Phe Phe Leu Leu Phe
20     25     30
Leu Trp Met Tyr Val Val Thr Val Ala Gly Asn Leu Leu Ile Val Leu
35     40     45
Ala Ile Gly Thr Asp Thr His Leu His Thr Pro Met Tyr Phe Phe Leu
50     55     60
Ala Ser Leu Ser Cys Ala Asp Ile Phe Ser Thr Ser Thr Thr Val Pro
65     70     75     80
Lys Ala Leu Val Asn Ile Gln Thr Gln Ser Arg Ser Ile Ser Tyr Ala
85     90     95
Gly Cys Leu Ala Gln Leu Tyr Phe Phe Leu Thr Phe Gly Asp Met Asp
100    105    110
Ile Phe Leu Pro Ala Thr Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys
115    120    125
His Leu Leu His Tyr Met Met Ile Met Ser Leu His Arg Cys Ala Phe
130    135    140
Leu Val Thr Ala Cys Trp Thr Leu Thr Ser Leu Leu Ala Met Thr Arg
145    150    155    160
Thr Phe Leu Ile Phe Arg Leu Ser Leu Cys Ser Xaa Ile Leu Pro Gly

```

| | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|
| | | | | 165 | | | | 170 | | | | | 175 | | | | |
| Phe | Phe | Cys | Asp | Leu | Gly | Pro | Leu | Met | Lys | Val | Ser | Cys | Ser | Asp | Ala | | |
| | | | 180 | | | | | 185 | | | | | 190 | | | | |
| Gln | Val | Asn | Glu | Leu | Val | Leu | Leu | Phe | Leu | Gly | Gly | Ala | Val | Ile | Leu | | |
| | | 195 | | | | | 200 | | | | | 205 | | | | | |
| Ile | Pro | Phe | Met | Leu | Ile | Leu | Val | Ser | Tyr | Ile | Arg | Ile | Val | Ser | Ala | | |
| | 210 | | | | | 215 | | | | | 220 | | | | | | |
| Ile | Leu | Arg | Ala | Pro | Ser | Ala | Gln | Gly | Arg | Arg | Lys | Ala | Phe | Ser | Thr | | |
| 225 | | | | 230 | | | | | 235 | | | | | | 240 | | |
| Cys | Asp | Ser | His | Leu | Val | Val | Val | Ala | Leu | Phe | Phe | Gly | Thr | Val | Ile | | |
| | | | 245 | | | | | 250 | | | | | | 255 | | | |
| Arg | Ala | Tyr | Leu | Cys | Pro | Ser | Ser | Ser | Ser | Ser | Asn | Ser | Val | Lys | Glu | | |
| | | | 260 | | | | | 265 | | | | | 270 | | | | |
| Asp | Thr | Ala | Ala | Ala | Val | Met | Tyr | Thr | Val | Val | Thr | Pro | Leu | Leu | Asn | | |
| | | 275 | | | | 280 | | | | | | 285 | | | | | |
| Pro | Phe | Ile | Tyr | Ser | Met | Arg | Asn | Lys | Asp | Met | Lys | Ala | Ala | Val | Val | | |
| | 290 | | | | | 295 | | | | | 300 | | | | | | |
| Arg | Leu | Leu | Lys | Gly | Arg | Val | Ser | Phe | Ser | Gln | Gly | | | | | | |
| 305 | | | | 310 | | | | | | 315 | | | | | | | |

<210> 1979

<211> 336

<212> PRT

<213> Unknown (H38g897 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(336)

<223> Xaa = Any Amino Acid

<400> 1979

| | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|
| Asp | Thr | Asp | Pro | Gln | Ser | Leu | Thr | Asp | Val | Ser | Ile | Phe | Leu | Leu | Leu | | |
| 1 | | | | 5 | | | | 10 | | | | | 15 | | | | |
| Lys | Leu | Ser | Glu | Asp | Pro | Glu | Leu | Gln | Val | Val | Ala | Gly | Leu | Phe | | | |
| | | 20 | | | | | 25 | | | | 30 | | | | | | |
| Leu | Ser | Met | Cys | Leu | Val | Thr | Val | Leu | Gly | Asn | Leu | Leu | Ile | Ile | Leu | | |
| | | 35 | | | | 40 | | | | | 45 | | | | | | |
| Ala | Val | Ser | Pro | Asp | Ser | His | Leu | His | Thr | Pro | Met | Tyr | Leu | Phe | Leu | | |
| | 50 | | | | | 55 | | | | 60 | | | | | | | |
| Ser | Asn | Leu | Ser | Leu | Ala | Asp | Ile | Gly | Phe | Thr | Ser | Thr | Thr | Val | Pro | | |
| 65 | | | | 70 | | | | | 75 | | | | | | 80 | | |
| Lys | Met | Ile | Val | Asp | Ile | Gln | Ser | His | Ser | Arg | Val | Ile | Ser | Tyr | Ala | | |
| | | | 85 | | | | | 90 | | | | | 95 | | | | |
| Gly | Cys | Leu | Thr | Gln | Met | Ser | Leu | Phe | Ala | Ile | Phe | Gly | Gly | Met | Glu | | |
| | | 100 | | | | | 105 | | | | | 110 | | | | | |
| Glu | Asn | Met | Leu | Leu | Ser | Val | Met | Ala | Tyr | Asp | Arg | Phe | Val | Ala | Ile | | |
| | | 115 | | | | 120 | | | | | 125 | | | | | | |
| Cys | His | Pro | Leu | Tyr | Cys | Ser | Ala | Ile | Phe | Asn | Pro | Cys | Phe | Cys | Gly | | |
| | 130 | | | | | 135 | | | | | 140 | | | | | | |
| Phe | Leu | Asp | Leu | Leu | Ser | Phe | Ile | Phe | Phe | Phe | Leu | Ser | Leu | Ser | Asp | | |
| 145 | | | | 150 | | | | | 155 | | | | | | 160 | | |
| Ser | Gln | Leu | His | Asn | Leu | Ile | Ala | Leu | Gln | Met | Thr | Cys | Phe | Lys | Asp | | |
| | | | 165 | | | | | 170 | | | | | | 175 | | | |
| Val | Glu | Ile | Pro | Asn | Phe | Phe | Trp | Glu | Pro | Ser | Gln | Leu | Ser | His | Leu | | |
| | | 180 | | | | | 185 | | | | | 190 | | | | | |
| Ala | Cys | Cys | Asp | Thr | Phe | Thr | Arg | Asn | Ile | Met | Tyr | Phe | Pro | Ala | Ala | | |
| | | 195 | | | | 200 | | | | | | 205 | | | | | |
| Ile | Phe | Gly | Phe | Leu | Pro | Ile | Leu | Gly | Thr | Leu | Phe | Ser | Tyr | Cys | Lys | | |
| | 210 | | | | | 215 | | | | | 220 | | | | | | |

```

Ile Val Ser Ser Ile Leu Arg Val Ser Ser Ser Gly Gly Lys Tyr Lys
225                230                235                240
Ala Phe Ser Thr Cys Gly Ser His Leu Ser Val Val Cys Xaa Phe Tyr
                245                250                255
Gly Thr Gly Ile Gly Gly Tyr Leu Gly Ser Asp Val Ser Ser Ser Pro
260                265                270
Arg Lys Gly Ala Val Ala Ser Val Met Tyr Met Val Val Thr Pro Met
275                280                285
Leu Asn Pro Phe Ile Tyr Ser Leu Arg Asn Arg Asp Met Lys Ser Val
290                295                300
Leu Arg Arg Pro His Gly Ser Thr Val Xaa Ser Gln His Leu Leu Ile
305                310                315                320
Cys Ser Ile Pro Phe Val Gly Trp Phe Lys Lys Gly Ala Lys Val Lys
                325                330                335

```

<210> 1980

<211> 309

<212> PRT

<213> Unknown (H38g898 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(309)

<223> Xaa = Any Amino Acid

<400> 1980

```

Met Arg Gln Asn Asn Ile Thr Glu Phe Val Leu Leu Gly Phe Ser
1                5                10                15
Gln Asp Leu Asp Val Gln Lys Ala Leu Phe Val Ile Phe Leu Leu Thr
                20                25                30
Tyr Leu Val Thr Val Val Gly Asn Leu Leu Ile Val Val Thr Ile Ile
35                40                45
Thr Ser Pro Ser Leu Gly Ser Pro Met Tyr Phe Phe Leu Ala Cys Leu
50                55                60
Ser Phe Ile Asp Ala Ala Tyr Ser Thr Thr Ile Ser Pro Lys Leu Ile
65                70                75                80
Val Asp Leu Leu Cys Asp Lys Lys Thr Ile Ser Phe Pro Ala Cys Met
                85                90                95
Gly Gln Leu Phe Ile Tyr His Leu Phe Gly Gly Ser Glu Val Phe Leu
100                105                110
Leu Val Val Met Ala Cys Asp His Tyr Val Ala Ile Cys Lys Pro Leu
115                120                125
His Tyr Leu Thr Ile Met Asn Arg Gln Val Xaa Ile Leu Leu Leu Val
130                135                140
Val Val Val Thr Gly Gly Phe Leu His Ser Val Phe Gln Ile Val Val
145                150                155                160
Val Tyr Ser Leu Ala Phe Cys Gly Pro Asn Val Ile Asp Tyr Phe Val
                165                170                175
Cys Asp Met Tyr Pro Leu Leu Glu Leu Val Cys Thr Asp Thr Tyr Phe
180                185                190
Ile Gly Leu Thr Val Phe Val Asn Gly Gly Thr Ile Cys Ile Val Val
195                200                205
Phe Thr Leu Leu Leu Ile Ser Tyr Gly Val Ile Leu Asn Ser Leu Lys
210                215                220
Thr Tyr Ser Gln Glu Gly Arg His Lys Val Leu Phe Thr Cys Ser Ser
225                230                235                240
His Ile Ile Val Phe Ala Leu Phe Phe Val Pro Cys Ile Phe Met Tyr
                245                250                255
Val Arg Pro Val Ser Asn Tyr Pro Phe Asp Lys Phe Leu Thr Val Phe

```

260 265 270
 Tyr Thr Val Ile Thr Pro Met Leu Asn Pro Leu Ile Tyr Thr Leu Arg
 275 280 285
 Asn Ser Glu Met Arg Asn Ser Val Glu Thr Leu Leu Cys Lys Ser Xaa
 290 295 300
 Leu Tyr Xaa Ser Lys
 305

<210> 1981

<211> 313

<212> PRT

<213> Unknown (H38g899 protein)

<220>

<223> Synthetic construct

<400> 1981

Met Glu Arg Ile Asn Ser Thr Leu Leu Thr Ala Phe Ile Leu Thr Gly
 1 5 10 15
 Ile Pro Tyr Pro Leu Arg Leu Arg Thr Leu Phe Phe Val Phe Phe Phe
 20 25 30
 Leu Ile Tyr Ile Leu Thr Gln Leu Gly Asn Leu Leu Ile Leu Ile Thr
 35 40 45
 Val Trp Ala Asp Pro Arg Leu His Ala Arg Pro Met Tyr Ile Phe Leu
 50 55 60
 Gly Val Leu Ser Val Ile Asp Met Ser Ile Ser Ser Ile Ile Val Pro
 65 70 75 80
 Arg Leu Met Met Asn Phe Thr Leu Gly Val Lys Pro Ile Pro Phe Gly
 85 90 95
 Gly Cys Val Ala Gln Leu Tyr Phe Tyr His Phe Leu Gly Ser Thr Gln
 100 105 110
 Cys Phe Leu Tyr Thr Leu Met Ala Tyr Asp Arg Tyr Leu Ala Ile Cys
 115 120 125
 Gln Pro Leu Arg Tyr Pro Val Leu Met Thr Ala Lys Leu Ser Ala Leu
 130 135 140
 Leu Val Ala Gly Ala Trp Met Ala Gly Ser Ile His Gly Ala Leu Gln
 145 150 155 160
 Ala Ile Leu Thr Phe Arg Leu Pro Tyr Cys Gly Pro Asn Gln Val Asp
 165 170 175
 Tyr Phe Phe Cys Asp Ile Pro Ala Val Leu Arg Leu Ala Cys Ala Asp
 180 185 190
 Thr Thr Val Asn Glu Leu Val Thr Phe Val Asp Ile Gly Val Val Val
 195 200 205
 Ala Ser Cys Phe Ser Leu Ile Leu Leu Ser Tyr Ile Gln Ile Ile Gln
 210 215 220
 Ala Ile Leu Arg Ile His Thr Ala Asp Gly Arg Arg Arg Ala Phe Ser
 225 230 235 240
 Thr Cys Gly Ala His Val Thr Val Val Thr Val Tyr Tyr Val Pro Cys
 245 250 255
 Ala Phe Ile Tyr Leu Arg Pro Glu Thr Asn Ser Pro Leu Asp Gly Ala
 260 265 270
 Ala Ala Leu Val Pro Thr Ala Ile Thr Pro Phe Leu Asn Pro Leu Ile
 275 280 285
 Tyr Thr Leu Arg Asn Gln Glu Val Lys Leu Ala Leu Lys Arg Met Leu
 290 295 300
 Arg Ser Pro Arg Thr Pro Ser Glu Val
 305 310

<210> 1982

<211> 318

<212> PRT

<213> Unknown (H38g900 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(318)

<223> Xaa = Any Amino Acid

<400> 1982

```

Met Gly Lys Thr Lys Asn Thr Ser Leu Asp Thr Val Val Arg Asp Phe
 1          5          10          15
Ile Leu Leu Gly Leu Ser His Pro Pro Asn Ile Arg Ser Leu Leu Phe
 20          25          30
Leu Val Phe Phe Val Ile Tyr Ile Leu Thr Gln Leu Gly Asn Leu Leu
 35          40          45
Ile Leu Leu Thr Val Trp Ala Asp Pro Lys Leu Arg Ala Arg Pro Met
 50          55          60
Tyr Ile Leu Leu Gly Val Leu Ser Phe Leu Asp Met Trp Leu Ser Ser
 65          70          75          80
Val Ile Val Pro Xaa Ile Ile Leu Asn Phe Thr Pro Ala Asn Lys Ala
 85          90          95
Ile Pro Phe Gly Gly Cys Val Ala Gln Leu Tyr Phe Phe His Phe Leu
 100         105         110
Gly Ser Thr Gln Cys Phe Leu Tyr Thr Leu Met Ala Tyr Asp Arg Tyr
 115         120         125
Leu Ala Ile Cys Gln Pro Leu Arg Tyr Pro Val Leu Met Asn Gly Arg
 130         135         140
Leu Cys Thr Val Leu Val Ala Gly Ala Trp Val Ala Gly Ser Met His
 145         150         155         160
Gly Ser Ile Gln Ala Thr Leu Thr Phe Arg Leu Pro Tyr Cys Gly Pro
 165         170         175
Asn Gln Val Asp Tyr Phe Ile Cys Asp Ile Pro Ala Val Leu Arg Leu
 180         185         190
Ala Cys Ala Asp Thr Thr Val Asn Glu Leu Val Thr Phe Val Asp Ile
 195         200         205
Gly Val Val Ala Ala Ser Cys Phe Met Leu Ile Leu Leu Ser Tyr Ala
 210         215         220
Asn Ile Val Asn Ala Ile Leu Lys Ile Arg Thr Thr Asp Gly Arg Arg
 225         230         235         240
Arg Ala Phe Ser Thr Cys Gly Ser His Leu Ile Val Val Thr Val Tyr
 245         250         255
Tyr Val Pro Cys Ile Phe Ile Tyr Leu Arg Ala Gly Ser Lys Gly Pro
 260         265         270
Leu Asp Gly Ala Ala Ala Val Phe Tyr Thr Val Val Thr Pro Leu Leu
 275         280         285
Asn Pro Leu Ile Tyr Thr Leu Arg Asn Gln Glu Val Lys Ser Ala Leu
 290         295         300
Lys Arg Ile Thr Ala Gly Gln Gly Thr Glu Xaa Lys Xaa Val
 305         310         315

```

<210> 1983

<211> 310

<212> PRT

<213> Unknown (H38g901 protein)

<220>

<223> Synthetic construct

<400> 1983

Met Gly Lys Thr Lys Asn Thr Ser Leu Asp Ala Val Val Thr Asp Phe

| | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|
| 1 | | 5 | | 10 | | 15 |
| Ile | Leu | Leu | Gly | Leu | Ser | His |
| | | 20 | | 25 | | 30 |
| Leu | Val | Phe | Phe | Ile | Ile | Tyr |
| | | 35 | | 40 | | 45 |
| Ile | Leu | Leu | Thr | Met | Trp | Ala |
| | | 50 | | 55 | | 60 |
| Tyr | Ile | Leu | Leu | Gly | Val | Leu |
| | | 65 | | 70 | | 75 |
| Val | Thr | Val | Pro | Arg | Leu | Ile |
| | | 85 | | 90 | | 95 |
| Ile | Pro | Phe | Gly | Gly | Cys | Val |
| | | 100 | | 105 | | 110 |
| Gly | Ser | Thr | Gln | Cys | Phe | Leu |
| | | 115 | | 120 | | 125 |
| Leu | Ala | Ile | Cys | Gln | Pro | Leu |
| | | 130 | | 135 | | 140 |
| Leu | Cys | Thr | Val | Leu | Val | Ala |
| | | 145 | | 150 | | 155 |
| Gly | Ser | Ile | Gln | Ala | Thr | Leu |
| | | 165 | | 170 | | 175 |
| Asn | Gln | Val | Asp | Tyr | Phe | Ile |
| | | 180 | | 185 | | 190 |
| Ala | Cys | Ala | Asp | Thr | Thr | Val |
| | | 195 | | 200 | | 205 |
| Arg | Val | Val | Ala | Ala | Ser | Cys |
| | | 210 | | 215 | | 220 |
| Asn | Ile | Val | His | Ala | Ile | Leu |
| | | 225 | | 230 | | 235 |
| Arg | Ala | Phe | Ser | Thr | Cys | Gly |
| | | 245 | | 250 | | 255 |
| Tyr | Val | Pro | Cys | Ile | Phe | Ile |
| | | 260 | | 265 | | 270 |
| Leu | Asp | Gly | Ala | Ala | Ala | Val |
| | | 275 | | 280 | | 285 |
| Asn | Pro | Leu | Ile | Tyr | Thr | Leu |
| | | 290 | | 295 | | 300 |
| Lys | Arg | Ile | Thr | Ala | Gly | |
| | | 305 | | 310 | | |

<210> 1984

<211> 300

<212> PRT

<213> Unknown (H38g902 protein)

<220>

<223> Synthetic construct

<400> 1984

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Phe | Ile | Leu | Thr | Gly | Phe | Thr | Asp | Asp | Phe | Glu | Leu | Gln | Val | Phe |
| 1 | | | | 5 | | | | 10 | | | | | 15 | | |
| Leu | Phe | Leu | Leu | Phe | Phe | Ala | Ile | Tyr | Leu | Phe | Thr | Leu | Ile | Gly | Asn |
| | | 20 | | | | | | 25 | | | | | 30 | | |
| Leu | Gly | Leu | Val | Val | Leu | Val | Ile | Glu | Asp | Ser | Trp | Leu | His | Asn | Pro |
| | | 35 | | | | | 40 | | | | | 45 | | | |
| Met | Tyr | Tyr | Phe | Leu | Ser | Val | Leu | Ser | Phe | Leu | Asp | Ala | Cys | Tyr | Ser |
| | | 50 | | | | 55 | | | | | 60 | | | | |
| Thr | Val | Val | Thr | Pro | Lys | Met | Leu | Val | Asn | Phe | Leu | Ala | Lys | Asn | Lys |
| | | 65 | | | 70 | | | | 75 | | | | | 80 | |
| Ser | Ile | Ser | Phe | Ile | Gly | Cys | Ala | Thr | Gln | Met | Leu | Leu | Phe | Val | Thr |
| | | | | 85 | | | | 90 | | | | | | 95 | |

Phe Gly Thr Thr Glu Cys Phe Leu Leu Ala Ala Met Ala Tyr Asp His
 100 105 110
 Tyr Val Ala Ile Tyr Asn Pro Leu Leu Tyr Ser Val Ser Met Ser Pro
 115 120 125
 Arg Val Tyr Val Pro Leu Ile Thr Ala Ser Tyr Val Ala Gly Ile Leu
 130 135 140
 His Ala Thr Ile His Ile Val Ala Thr Phe Ser Leu Ser Phe Cys Gly
 145 150 155 160
 Ser Asn Glu Ile Arg His Val Phe Cys Asp Met Pro Pro Leu Leu Ala
 165 170 175
 Ile Ser Cys Ser Asp Thr His Thr Asn Gln Leu Leu Leu Phe Tyr Phe
 180 185 190
 Val Gly Ser Ile Glu Ile Val Thr Ile Leu Ile Val Leu Ile Ser Cys
 195 200 205
 Asp Phe Ile Leu Leu Ser Ile Leu Lys Met His Ser Ala Lys Gly Arg
 210 215 220
 Gln Lys Ala Phe Ser Thr Cys Gly Ser His Leu Thr Gly Val Thr Ile
 225 230 235 240
 Tyr His Gly Thr Ile Leu Val Ser Tyr Met Arg Pro Ser Ser Ser Tyr
 245 250 255
 Ala Ser Asp His Asp Ile Ile Val Ser Ile Phe Tyr Thr Ile Val Ile
 260 265 270
 Pro Lys Leu Asn Pro Ile Ile Tyr Ser Leu Arg Asn Lys Glu Val Lys
 275 280 285
 Lys Ala Val Lys Lys Met Leu Lys Leu Val Tyr Lys
 290 295 300

<210> 1985

<211> 324

<212> PRT

<213> Unknown (H38g903 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(324)

<223> Xaa = Any Amino Acid

<400> 1985

His Thr Glu Pro Arg Asn Leu Thr Gly Val Xaa Glu Phe Leu Leu Leu
 1 5 10 15
 Gly Leu Ser Glu Asp Pro Glu Leu Gln Pro Val Leu Ala Leu Leu Ser
 20 25 30
 Leu Ser Leu Ser Met Tyr Leu Val Thr Val Leu Arg Asn Leu Leu Ser
 35 40 45
 Ile Leu Ala Val Arg Ser Glu Ser Pro Leu His Thr Thr Met Tyr Phe
 50 55 60
 Phe Leu Ser Ile Leu Cys Trp Ala Asp Ile Gly Phe Thr Ser Ala Thr
 65 70 75 80
 Val Pro Lys Met Ile Val Asp Met Gln Trp Tyr Ser Lys Val Ile Ser
 85 90 95
 His Ala Gly Cys Leu Thr Gln Met Ser Phe Leu Val Leu Phe Ala Cys
 100 105 110
 Ile Glu Gly Met Leu Leu Thr Val Met Ala Tyr Asp Cys Phe Val Gly
 115 120 125
 Ile Cys Arg Pro Leu His Tyr Pro Val Ile Val Asn Pro His Leu Cys
 130 135 140
 Val Phe Phe Val Leu Val Ser Phe Phe Leu Ser Leu Leu Asp Ser Gln
 145 150 155 160
 Leu His Ser Trp Ile Val Leu Gln Phe Thr Ile Ile Lys Asn Val Glu

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Ser | Asn | Phe | Val | Cys | Asp | Pro | Ser | Gln | Leu | Leu | Lys | Leu | Ala | Cys |
| | | | 180 | | | | | 185 | | | | | 190 | | |
| Ser | Asp | Ser | Val | Ile | Asn | Ser | Ile | Phe | Ile | Tyr | Phe | Gly | Ser | Thr | Met |
| | | 195 | | | | | 200 | | | | | 205 | | | |
| Phe | Gly | Phe | Leu | Pro | Ile | Ser | Gly | Ile | Leu | Leu | Ser | Tyr | Tyr | Lys | Ile |
| | 210 | | | | | 215 | | | | | 220 | | | | |
| Val | Pro | Ser | Ile | Leu | Arg | Ile | Ser | Ser | Ser | Asp | Gly | Lys | Tyr | Lys | Ala |
| | 225 | | | | 230 | | | | | 235 | | | | | 240 |
| Phe | Ser | Thr | Tyr | Gly | Ser | His | Leu | Ala | Val | Phe | Cys | Xaa | Phe | Asp | Gly |
| | | | | 245 | | | | | 250 | | | | | 255 | |
| Thr | Gly | Ile | Gly | Val | Tyr | Leu | Thr | Ser | Ala | Val | Ala | Pro | Pro | Pro | Arg |
| | | | 260 | | | | | 265 | | | | | 270 | | |
| Asn | Gly | Val | Val | Val | Ser | Val | Lys | Xaa | Ala | Val | Val | Thr | Pro | Met | Pro |
| | 275 | | | | | | 280 | | | | | 285 | | | |
| Asn | Leu | Phe | Ile | Tyr | Ser | Leu | Arg | Asn | Arg | Asp | Ile | Gln | Ser | Ala | Leu |
| | 290 | | | | | 295 | | | | | 300 | | | | |
| Arg | Arg | Leu | Pro | Asn | Lys | Thr | Val | Glu | Ser | Pro | Xaa | Ser | Val | Pro | Ser |
| | 305 | | | | 310 | | | | | 315 | | | | | 320 |
| Phe | Phe | Trp | Cys | | | | | | | | | | | | |

<210> 1986

<211> 335

<212> PRT

<213> Unknown (H38g904 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(335)

<223> Xaa = Any Amino Acid

<400> 1986

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asp | Thr | Asp | Pro | Gln | Ser | Ile | Thr | Asp | Val | Ser | Ile | Phe | Leu | Leu | Leu |
| 1 | | | 5 | | | | | 10 | | | | | 15 | | |
| Glu | Leu | Ser | Glu | Asp | Pro | Glu | Leu | Gln | Pro | Val | Val | Ala | Gly | Leu | Phe |
| | | | 20 | | | | | 25 | | | | | 30 | | |
| Leu | Ser | Met | Cys | Leu | Val | Met | Val | Leu | Gly | Asn | Leu | Leu | Ile | Ile | Leu |
| | | 35 | | | | 40 | | | | | 45 | | | | |
| Asp | Val | Ser | Pro | Asp | Ser | His | Leu | Pro | Thr | Pro | Met | Tyr | Phe | Phe | Leu |
| | 50 | | | | 55 | | | | | 60 | | | | | |
| Ser | Asn | Leu | Ser | Leu | Pro | Asp | Ile | Gly | Phe | Thr | Ser | Thr | Thr | Val | Pro |
| | 65 | | | | 70 | | | | | 75 | | | | | 80 |
| Lys | Met | Ile | Val | Asp | Ile | Gln | Ser | His | Ser | Lys | Val | Ile | Tyr | Ala | Gly |
| | | | 85 | | | | | 90 | | | | | | 95 | |
| Cys | Leu | Thr | Val | Met | Ser | Leu | Phe | Ala | Ile | Phe | Gly | Gly | Met | Glu | Lys |
| | | | 100 | | | | | 105 | | | | | 110 | | |
| Asn | Met | Leu | Leu | Ser | Val | Met | Ala | Tyr | Asp | Arg | Phe | Val | Pro | Ile | Cys |
| | 115 | | | | | | | 120 | | | | 125 | | | |
| His | Pro | Leu | Tyr | Arg | Ser | Ala | Ile | Leu | Asn | Pro | Cys | Phe | Cys | Gly | Phe |
| | 130 | | | | | 135 | | | | | 140 | | | | |
| Leu | Asn | Leu | Leu | Ser | Phe | Phe | Phe | Phe | Leu | Ser | Leu | Leu | Asp | Ser | Gln |
| | 145 | | | | 150 | | | | | 155 | | | | | 160 |
| Leu | His | Asn | Leu | Ile | Ala | Leu | Gln | Met | Thr | Cys | Phe | Lys | Asp | Val | Glu |
| | | | 165 | | | | | | 170 | | | | | 175 | |
| Ile | Pro | Asn | Phe | Trp | Glu | Pro | Ser | Gln | Leu | Pro | His | Leu | Ala | Cys | |
| | | 180 | | | | | 185 | | | | | 190 | | | |
| Cys | Asp | Thr | Phe | Thr | Arg | Asn | Ile | Ser | Met | Tyr | Phe | Pro | Ala | Ala | Val |
| | 195 | | | | | | 200 | | | | | 205 | | | |

Phe Gly Phe Leu Ser Ile Ser Gly Thr Leu Phe Ser Tyr Cys Lys Met
 210 215 220
 Val Ser Ser Ile Leu Arg Val Ser Ser Ser Gly Gly Lys Tyr Lys Ala
 225 230 235 240
 Phe Ser Thr Xaa Gly Ser His Leu Ser Val Val Cys Xaa Phe Tyr Gly
 245 250 255
 Thr Gly Val Gly Glu Tyr Leu Gly Ser Asp Val Ser Ser Ser Pro Arg
 260 265 270
 Lys Gly Ala Val Ala Ser Val Met Tyr Thr Val Val Thr Pro Met Leu
 275 280 285
 Asn Pro Phe Ile Tyr Ser Leu Arg Asn Gly Asp Ile Lys Ser Val Leu
 290 295 300
 Arg Arg Pro Gln Gly Ser Thr Val Ser Ser Gln Tyr Leu Leu Ile Cys
 305 310 315 320
 Ser Ile Pro Phe Val Gly Trp Val Asn Lys Asp Ser Lys Val Lys
 325 330 335

<210> 1987

<211> 310

<212> PRT

<213> Unknown (H38g905 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(310)

<223> Xaa = Any Amino Acid

<400> 1987

Met Glu Asn Arg Lys Asn Val Thr Xaa Phe Ile Leu Leu Gly Leu Thr
 1 5 10 15
 Gln Asn Pro Glu Gly Gln Lys Val Leu Phe Val Thr Phe Leu Leu Ile
 20 25 30
 Tyr Ile Val Thr Ile Met Gly Asn Leu Leu Ile Met Val Thr Ile Met
 35 40 45
 Ala Ser Gln Ser Leu Gly Ser Pro Met Tyr Phe Phe Leu Ala Ser Leu
 50 55 60
 Ser Phe Ile His Thr Val Tyr Tyr Thr Ala Ile Ala Pro Lys Met Ile
 65 70 75 80
 Val Asp Leu Leu Ser Glu Lys Lys Thr Ile Ser Phe Gln Gly Cys Met
 85 90 95
 Ala Gln Leu Phe Met Asp His Leu Phe Ala Gly Ala Glu Val Ile Leu
 100 105 110
 Leu Val Val Met Ala Tyr Asp Gln Tyr Val Ala Ile Cys Lys Pro Leu
 115 120 125
 His Tyr Leu Ile Ile Met Asn Arg Arg Val Cys Val Leu Met Leu Leu
 130 135 140
 Val Ala Trp Ile Gly Gly Phe Leu His Ser Leu Val Gln Phe Leu Phe
 145 150 155 160
 Ile Tyr Gln Leu Pro Phe Cys Gly Pro Asn Val Ile Asp Asn Phe Leu
 165 170 175
 Cys Asp Leu Tyr Pro Leu Leu Lys Leu Ala Cys Thr Asn Thr Tyr Val
 180 185 190
 Thr Gly Leu Ser Met Ile Ala Asn Gly Gly Ala Ile Cys Thr Val Thr
 195 200 205
 Phe Phe Pro Leu Leu Leu Ser Tyr Gly Val Ile Leu Pro Ser Leu Lys
 210 215 220
 Thr Gln Ser Leu Glu Gly Lys Cys Lys Ala Phe Tyr Thr Cys Ala Ser
 225 230 235 240
 His Ile Thr Val Ile Thr Leu Phe Phe Val Pro Cys Ile Phe Leu Leu

| | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|
| | | | | 245 | | | | | 250 | | | | | 255 | | | |
| Ala | Arg | Pro | Asn | Ser | Thr | Phe | Pro | Ile | Asp | Lys | Ser | Met | Thr | Val | Val | | |
| | | | 260 | | | | | 265 | | | | | 270 | | | | |
| Leu | Thr | Cys | Ile | Thr | Pro | Met | Leu | Lys | Pro | Leu | Ile | Tyr | Ala | Leu | Arg | | |
| | | 275 | | | | | 280 | | | | | 285 | | | | | |
| Asn | Ala | Glu | Met | Lys | Ser | Ala | Met | Arg | Lys | Leu | Trp | Ser | Glu | Lys | Val | | |
| | 290 | | | | | 295 | | | | | 300 | | | | | | |
| Ser | Leu | Ala | Gly | Lys | Gly | | | | | | | | | | | | |
| 305 | | | | | 310 | | | | | | | | | | | | |

<210> 1988

<211> 308

<212> PRT

<213> Unknown (H38g906 protein)

<220>

<223> Synthetic construct

<400> 1988

| | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|
| His | Met | Pro | Pro | Asn | Asn | Val | Thr | Glu | Phe | Ile | Leu | Leu | Gly | Leu | Thr | | |
| 1 | | | | 5 | | | | 10 | | | | | 15 | | | | |
| Gln | Asn | Pro | His | Leu | Gln | Lys | Ile | Leu | Phe | Ile | Val | Phe | Leu | Phe | Ile | | |
| | | 20 | | | | | 25 | | | | | 30 | | | | | |
| Phe | Leu | Phe | Thr | Met | Leu | Ala | Asn | Leu | Phe | Ile | Val | Ile | Thr | Ile | Ser | | |
| | 35 | | | | 40 | | | | | | 45 | | | | | | |
| Cys | Ser | Pro | Thr | Leu | Ser | Ser | Pro | Met | Tyr | Phe | Phe | Leu | Thr | Tyr | Leu | | |
| | 50 | | | | 55 | | | | | 60 | | | | | | | |
| Ser | Phe | Ile | Asp | Ala | Ser | Tyr | Thr | Ser | Val | Thr | Thr | Pro | Lys | Met | Ile | | |
| 65 | | | | 70 | | | | 75 | | | | | | 80 | | | |
| Thr | Asp | Leu | Leu | Tyr | Gln | Arg | Arg | Thr | Ile | Ser | Leu | Ala | Gly | Cys | Leu | | |
| | | 85 | | | | | 90 | | | | | | 95 | | | | |
| Thr | Gln | Leu | Phe | Val | Glu | His | Leu | Leu | Gly | Gly | Ser | Glu | Ile | Ile | Leu | | |
| | 100 | | | | | | 105 | | | | | 110 | | | | | |
| Leu | Ile | Val | Met | Ala | Tyr | Asp | Arg | Tyr | Val | Ala | Ile | Cys | Lys | Pro | Leu | | |
| | 115 | | | | | 120 | | | | | 125 | | | | | | |
| His | Tyr | Thr | Thr | Ile | Met | Gln | Gly | Ile | Cys | His | Leu | Leu | Val | Val | | | |
| | 130 | | | | 135 | | | | 140 | | | | | | | | |
| Ile | Ala | Trp | Ile | Gly | Gly | Ile | Leu | His | Ala | Thr | Val | Gln | Ile | Leu | Phe | | |
| 145 | | | | 150 | | | | 155 | | | | | | 160 | | | |
| Met | Thr | Asp | Leu | Pro | Phe | Cys | Gly | Pro | Asn | Val | Ile | Asp | His | Phe | Met | | |
| | | 165 | | | | | 170 | | | | | | | 175 | | | |
| Cys | Asp | Leu | Phe | Pro | Leu | Leu | Lys | Leu | Ala | Cys | Arg | Asp | Thr | Tyr | Arg | | |
| | 180 | | | | | | 185 | | | | | 190 | | | | | |
| Leu | Gly | Met | Leu | Val | Ala | Ala | Asn | Ser | Gly | Ala | Met | Cys | Leu | Leu | Ile | | |
| | 195 | | | | | | 200 | | | | | 205 | | | | | |
| Phe | Ser | Leu | Leu | Val | Ile | Ser | Tyr | Ile | Val | Ile | Leu | Ser | Ser | Leu | Lys | | |
| | 210 | | | | | 215 | | | | | 220 | | | | | | |
| Ser | Tyr | Ser | Ser | Glu | Gly | Gln | His | Lys | Ala | Leu | Ser | Thr | Cys | Gly | Ser | | |
| 225 | | | | 230 | | | | | 235 | | | | | 240 | | | |
| His | Phe | Thr | Val | Val | Val | Leu | Phe | Phe | Val | Pro | Cys | Ile | Phe | Thr | Tyr | | |
| | | 245 | | | | | | 250 | | | | | 255 | | | | |
| Met | His | Pro | Val | Thr | Tyr | Ser | Val | Asp | Lys | Leu | Val | Thr | Val | Phe | | | |
| | 260 | | | | | 265 | | | | | | 270 | | | | | |
| Phe | Ala | Ile | Leu | Thr | Pro | Met | Leu | Asn | Pro | Ile | Ile | Tyr | Thr | Val | Arg | | |
| | 275 | | | | | 280 | | | | | | 285 | | | | | |
| Asn | Thr | Glu | Val | Lys | Asn | Ala | Val | Arg | Ser | Leu | Leu | Arg | Lys | Arg | Val | | |
| | 290 | | | | 295 | | | | | | 300 | | | | | | |
| Thr | Val | Tyr | Ala | | | | | | | | | | | | | | |
| 305 | | | | | | | | | | | | | | | | | |

<210> 1989

<211> 166
 <212> PRT
 <213> Unknown (H38g907 protein)

<220>
 <223> Synthetic construct

<221> VARIANT
 <222> (1)...(166)
 <223> Xaa = Any Amino Acid

<400> 1989

```

Met Tyr Thr Thr Leu Leu Met Ala Arg Leu Cys Leu Cys Ala Asp Asn
 1           5           10           15
Val Ile Pro His Ser Phe Cys Asp Met Ser Ala Leu Leu Lys Leu Ala
      20           25           30
Leu Ser Asp Thr Arg Val Asn Glu Xaa Val Ile Phe Ile Met Gly Gly
      35           40           45
Leu Ile Leu Val Ile Pro Ser Ile Leu Ile Leu Gly Ser Tyr Ala Arg
      50           55           60
Ile Val Ser Ser Ile Leu Lys Val Pro Ser Ser Lys Cys Ile Cys Lys
      65           70           75           80
Ala Phe Ser Thr Cys Gly Ser His Leu Ser Val Val Ser Leu Phe Tyr
      85           90           95
Gly Thr Val Ile Gly Leu Tyr Leu Cys Ser Ser Ala Asn Ser Ser Thr
      100          105          110
Leu Lys Asp Thr Val Met Ala Met Met Tyr Thr Val Val Thr Pro Met
      115          120          125
Leu Asn Pro Phe Ile Tyr Ser Leu Arg Asn Arg Asp Met Lys Gly Ala
      130          135          140
Leu Ser Arg Val Ile His Gln Lys Lys Thr Phe Phe Ser Leu Xaa Xaa
      145          150          155          160
Xaa His Leu Glu Leu Leu
                        165

```

<210> 1990
 <211> 333
 <212> PRT
 <213> Unknown (H38g908 protein)

<220>
 <223> Synthetic construct

<221> VARIANT
 <222> (1)...(333)
 <223> Xaa = Any Amino Acid

<400> 1990

```

Met Gly Pro Lys Asn Leu Thr Arg Val Leu Glu Phe Phe Leu Leu His
 1           5           10           15
Phe Leu Asp Asp Leu Glu Leu Gln Pro Phe Leu Ser Gly Cys Pro Xaa
      20           25           30
Thr Met His Leu Val Thr Val Leu Ala Asn Leu Leu Thr Ser Phe Xaa
      35           40           45
Leu Ser Ala Leu Pro His Leu His Asn Pro Met Asn Phe Asn Leu Ser
      50           55           60
Leu Ala Asp Ile Gly Phe Thr Pro Ala Thr Ile Ser Lys Ile Thr Val
      65           70           75           80
Asp Leu Gln Thr His Ser Arg Ile Ile Leu Tyr Met Ser Cys Leu Lys
      85           90           95
Xaa Met Ser Phe Lys Ile Ile Phe Gly Cys Leu His Asn Leu Leu Met

```

| <400> 1991 | | | | | | | | | | | | | | | | |
|------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| Met | Gly | Thr | Ser | Asn | Asn | Glu | Thr | Glu | Phe | Ile | Leu | Leu | Gly | Ile | Thr | |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | | |
| Lys | Asn | Pro | | Glu | Arg | Lys | Ile | Phe | Ser | Ala | Leu | Phe | Leu | Ala | Met | |
| | | | | 20 | | | | 25 | | | | | 30 | | | |
| Tyr | Val | Thr | Thr | Val | Leu | Gly | Asn | Leu | Phe | Ile | Val | Val | Thr | Leu | Ala | |
| | | 35 | | | | | 40 | | | | | 45 | | | | |
| Ala | Ser | Trp | Ser | Leu | Arg | Ser | Pro | Met | Tyr | Phe | Ser | Leu | Thr | Ser | Leu | |
| | 50 | | | | | 55 | | | | | 60 | | | | | |
| Ser | Leu | Met | Gly | Ala | Thr | Tyr | Ser | Ser | Ile | Thr | Ala | Pro | Lys | Met | Thr | |
| 65 | | | | | 70 | | | | 75 | | | | | | 80 | |
| Val | Asp | Ser | Leu | Arg | Ser | Thr | Thr | Ile | Ser | Leu | Glu | Gly | Cys | Met | Thr | |
| | | | | 85 | | | | | 90 | | | | | 95 | | |
| Gln | Leu | Phe | Ala | Glu | His | Phe | Ser | Asp | Gly | Val | Ala | Ile | Ile | Leu | Leu | |
| | | | 100 | | | | | 105 | | | | | 110 | | | |
| Thr | Val | Met | Val | Cys | Asp | Cys | Tyr | Glu | Ala | Ile | Ser | Lys | Pro | Leu | His | |
| | | 115 | | | | | 120 | | | | | 125 | | | | |
| Asp | Thr | Thr | Ile | Met | Ser | Pro | Arg | Val | Cys | Cys | Leu | Leu | Val | Val | Glu | |
| | 130 | | | | | 135 | | | | | 140 | | | | | |
| Ala | Trp | Val | Gly | Gly | Leu | Thr | His | Ala | Thr | Ile | Gln | Leu | Phe | Phe | Phe | |
| 145 | | | | | 150 | | | | | 155 | | | | | 160 | |
| Leu | Tyr | Gln | Ile | Pro | Phe | Cys | Gly | Pro | Asn | Ile | Ile | Asp | His | Phe | Ile | |
| | | | | 165 | | | | | 170 | | | | | 175 | | |

Cys Asp Leu Phe Pro Leu Leu Lys Leu Ala Tyr Met Asp Thr His Met
 180 185 190
 Leu Gly Leu Leu Val Ile Leu Asn Ser Gly Val Met Cys Met Ala Ile
 195 200 205
 Phe Leu Ile Leu Ile Ala Ser Tyr Ile Val Thr Leu Tyr Ser Leu Lys
 210 215 220
 Ser Cys Ser Ser Val Gly Arg Arg Asn Thr Leu Ser Thr Cys Gly Ser
 225 230 235 240
 His His Thr Val Val Ile Leu Phe Phe Val Glu Cys Ile Phe Leu Tyr
 245 250 255
 Ile Arg Pro Val Val Thr Tyr Pro Ile Asp Lys Asp Met Ala Ile Ser
 260 265 270
 Phe Thr Ile Val Ala Pro Met Leu Asn Pro Leu Ile Tyr Thr Leu Arg
 275 280 285
 Gly Ile Lys Val Lys Asn Ala Ile Arg Lys Met Trp Met Lys Gln Gly
 290 295 300
 Thr Leu Gly Gly
 305

<210> 1992

<211> 318

<212> PRT

<213> Unknown (H38g910 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(318)

<223> Xaa = Any Amino Acid

<400> 1992

Met Ala Pro Thr Asn Leu Thr Ser Ala Pro Val Phe Leu Leu Leu Gly
 1 5 10 15
 Leu Val Asp Gly Thr Asp Ala His Pro Leu Leu Phe Leu Leu Cys Leu
 20 25 30
 Gly Ile Tyr Leu Leu Asn Ala Leu Ser Asn Leu Ser Met Val Ala Leu
 35 40 45
 Val Arg Ser Asp Gly Ala Leu Arg Ser Pro Met Tyr Tyr Phe Leu Gly
 50 55 60
 His Leu Ser Leu Val Asp Val Cys Phe Thr Thr Val Thr Val Pro Arg
 65 70 75 80
 Leu Leu Ala Gly Leu Leu His Pro Gly Gln Ala Ile Ser Phe Gln Ala
 85 90 95
 Cys Leu Ala Glu Met Tyr Phe Phe Val Thr Leu Gly Ile Thr Glu Ser
 100 105 110
 Tyr Leu Met Ala Ala Met Ser Xaa Arg Ala Arg Arg Arg Val Pro Ala
 115 120 125
 Pro Leu Tyr Gly Ala Leu Val Thr Pro Ser Ala Cys Ala Ser Leu Val
 130 135 140
 Arg Ala Ser Trp Ala Val Thr His Leu His Ser Leu Leu His Thr Leu
 145 150 155 160
 Leu Leu Ser Ala Leu Ser Tyr Pro Tyr Pro Thr Pro Val Arg Pro Phe
 165 170 175
 Phe Cys Asp Met Thr Val Met Leu Ser Leu Ala Thr Ser Asp Thr Ser
 180 185 190
 Ala Ala Glu Thr Ala Ile Phe Ser Glu Gly Leu Ala Val Val Leu Ala
 195 200 205
 Pro Leu Leu Leu Val Phe Leu Ser Tyr Ala Arg Ile Leu Val Ala Val
 210 215 220
 Leu Gly Leu Pro Arg Pro Arg Arg Ala Phe Ser Thr Cys Gly Ala His

| | | | | | | |
|---------------------|---|-----------------------------|--|-----|--|-----|
| 225 | | 230 | | 235 | | 240 |
| Leu Val Ala Val | Ala Val Ala Leu Phe | Phe Gly Ser Val Leu Ser Val | | | | |
| | 245 | 250 | | 255 | | |
| Tyr Phe Pro Pro | Ser Ser Ala Tyr Ser Ala Arg Tyr Asp Arg Leu Ala | | | | | |
| | 260 | 265 | | 270 | | |
| Ser Val Val Tyr | Ala Val Ile Thr Pro Thr Leu Asn Pro Phe Ile Asn | | | | | |
| | 275 | 280 | | 285 | | |
| Ser Leu Arg Asn Lys | Glu Val Lys Gly Ala Leu Lys Arg Gly Leu Arg | | | | | |
| | 290 | 295 | | 300 | | |
| Trp Arg Ala Ala Pro | Gln Glu Ala Trp Arg Ala Asn Leu Ala | | | | | |
| 305 | 310 | 315 | | | | |

<210> 1993

<211> 311

<212> PRT

<213> Unknown (H38g911 protein)

<220>

<223> Synthetic construct

<400> 1993

| | | |
|-----------------|---|-----|
| Met Lys Gly Ala | Asn Leu Ser Gln Gly Met Glu Phe Glu Leu Leu Gly | |
| 1 | 5 | 10 |
| Leu Thr Thr Asp | Pro Gln Leu Gln Arg Leu Leu Phe Val Val Phe Leu | |
| | 20 | 25 |
| Gly Met Tyr Thr | Ala Thr Leu Leu Gly Asn Leu Val Met Phe Leu Leu | |
| | 35 | 40 |
| Ile His Val Ser | Ala Thr Leu His Thr Pro Met Tyr Ser Leu Leu Lys | |
| | 50 | 55 |
| Ser Leu Ser Phe | Leu Asp Phe Cys Tyr Ser Ser Thr Val Val Pro Gln | |
| 65 | 70 | 75 |
| Thr Leu Val Asn | Phe Leu Ala Lys Arg Lys Val Ile Ser Tyr Phe Gly | |
| | 85 | 90 |
| Cys Met Thr Gln | Met Phe Phe Tyr Ala Gly Phe Ala Thr Ser Glu Cys | |
| | 100 | 105 |
| Tyr Leu Ile Ala | Ala Met Ala Tyr Asp Arg Tyr Ala Ala Ile Cys Asn | |
| | 115 | 120 |
| Pro Leu Leu Tyr | Ser Thr Ile Met Ser Pro Glu Val Cys Ala Ser Leu | |
| | 130 | 135 |
| Ile Val Gly Ser | Tyr Ser Ala Gly Phe Leu Asn Ser Leu Ile His Thr | |
| 145 | 150 | 155 |
| Gly Cys Ile Phe | Ser Leu Lys Phe Cys Gly Ala His Val Val Thr His | |
| | 165 | 170 |
| Phe Phe Cys Asp | Gly Pro Pro Ile Leu Ser Leu Ser Cys Val Asp Thr | |
| | 180 | 185 |
| Ser Leu Cys Glu | Ile Leu Leu Phe Ile Phe Ala Gly Phe Asn Leu Leu | |
| | 195 | 200 |
| Ser Cys Thr Leu | Thr Ile Leu Ile Ser Tyr Phe Leu Ile Leu Asn Thr | |
| | 210 | 215 |
| Ile Leu Lys Met | Ser Ser Ala Gln Gly Arg Phe Lys Ala Phe Ser Thr | |
| 225 | 230 | 235 |
| Cys Ala Ser His | Leu Thr Ala Ile Cys Leu Phe Phe Gly Thr Thr Leu | |
| | 245 | 250 |
| Phe Met Tyr Leu | Arg Pro Arg Ser Ser Tyr Ser Leu Thr Gln Asp Arg | |
| | 260 | 265 |
| Thr Val Ala Val | Ile Tyr Thr Val Val Ile Pro Val Leu Asn Pro Leu | |
| | 275 | 280 |
| Met Tyr Ser Leu | Arg Asn Lys Asp Val Lys Lys Ala Leu Ile Lys Val | |
| | 290 | 295 |
| Trp Gly Arg Lys | Thr Met Glu | |
| 305 | 310 | |

<210> 1994
 <211> 316
 <212> PRT
 <213> Unknown (H38g912 protein)

<220>
 <223> Synthetic construct

<400> 1994

```

Met Gln Asn Gln Ser Phe Val Thr Glu Phe Val Leu Leu Gly Leu Ser
 1           5           10           15
Gln Asn Pro Asn Val Gln Glu Ile Val Phe Val Val Phe Leu Phe Val
 20           25           30
Tyr Ile Ala Thr Val Gly Gly Asn Met Leu Ile Val Val Thr Ile Leu
 35           40           45
Ser Ser Pro Ala Leu Leu Val Ser Pro Met Tyr Phe Phe Leu Gly Phe
 50           55           60
Leu Ser Phe Leu Asp Ala Cys Phe Ser Ser Val Ile Thr Pro Lys Met
 65           70           75           80
Ile Val Asp Ser Leu Tyr Val Thr Lys Thr Ile Ser Phe Glu Gly Cys
 85           90           95
Met Met Gln Leu Phe Ala Glu His Phe Phe Ala Gly Val Glu Val Ile
 100          105          110
Val Leu Thr Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Lys Pro
 115          120          125
Leu His Tyr Ser Ser Ile Met Asn Arg Arg Leu Cys Gly Ile Leu Met
 130          135          140
Gly Val Ala Trp Thr Gly Gly Leu Leu His Ser Met Ile Gln Ile Leu
 145          150          155          160
Phe Thr Phe Gln Leu Pro Phe Cys Gly Pro Asn Val Ile Asn His Phe
 165          170          175
Met Cys Asp Leu Tyr Pro Leu Leu Glu Leu Ala Cys Thr Asp Thr His
 180          185          190
Ile Phe Gly Leu Met Val Val Ile Asn Ser Gly Phe Ile Cys Ile Ile
 195          200          205
Asn Phe Ser Leu Leu Leu Val Ser Tyr Ala Val Ile Leu Leu Ser Leu
 210          215          220
Arg Thr His Ser Ser Glu Gly Arg Trp Lys Ala Leu Ser Thr Cys Gly
 225          230          235          240
Ser His Ile Ala Val Val Ile Leu Phe Phe Val Pro Cys Ile Phe Val
 245          250          255
Tyr Thr Arg Pro Pro Ser Ala Phe Ser Leu Asp Lys Met Ala Ala Ile
 260          265          270
Phe Tyr Ile Ile Leu Asn Pro Leu Leu Asn Pro Leu Ile Tyr Thr Phe
 275          280          285
Arg Asn Lys Glu Val Lys Gln Ala Met Arg Arg Ile Trp Asn Arg Leu
 290          295          300
Met Val Val Ser Asp Glu Lys Glu Asn Ile Lys Leu
 305          310          315

```

<210> 1995
 <211> 310
 <212> PRT
 <213> Unknown (H38g913 protein)

<220>
 <223> Synthetic construct

<400> 1995

Met Gln Leu Asn Asn Asn Val Thr Glu Phe Ile Leu Leu Gly Leu Thr

```

      1           5           10           15
Gln Asp Pro Phe Trp Lys Lys Ile Val Phe Val Ile Phe Leu Arg Leu
      20           25           30
Tyr Leu Gly Thr Leu Leu Gly Asn Leu Leu Ile Ile Ile Ser Val Lys
      35           40           45
Ala Ser Gln Ala Leu Lys Asn Pro Met Phe Phe Phe Leu Phe Tyr Leu
      50           55           60
Ser Leu Ser Asp Thr Cys Leu Ser Thr Ser Ile Ala Pro Arg Met Ile
      65           70           75           80
Val Asp Ala Leu Leu Lys Lys Thr Thr Ile Ser Phe Ser Glu Cys Met
      85           90           95
Ile Gln Val Phe Ser Ser His Val Phe Gly Cys Leu Glu Ile Phe Ile
      100          105          110
Leu Ile Leu Thr Ala Val Asp Arg Tyr Val Asp Ile Cys Lys Pro Leu
      115          120          125
His Tyr Met Thr Ile Ile Ser Gln Trp Val Cys Gly Val Leu Met Ala
      130          135          140
Val Ala Trp Val Gly Ser Cys Val His Ser Leu Val Gln Ile Phe Leu
      145          150          155          160
Ala Leu Ser Leu Pro Phe Cys Gly Pro Asn Val Ile Asn His Cys Phe
      165          170          175
Cys Asp Leu Gln Pro Leu Leu Lys Gln Ala Cys Ser Glu Thr Tyr Val
      180          185          190
Val Asn Leu Leu Leu Val Ser Asn Ser Gly Ala Ile Cys Ala Val Ser
      195          200          205
Tyr Val Met Leu Ile Phe Ser Tyr Val Ile Phe Leu His Ser Leu Arg
      210          215          220
Asn His Ser Ala Glu Val Ile Lys Lys Ala Leu Ser Thr Cys Val Ser
      225          230          235          240
His Ile Ile Val Val Ile Leu Phe Phe Gly Pro Cys Ile Phe Met Tyr
      245          250          255
Thr Cys Pro Ala Thr Val Phe Pro Met Asp Lys Met Ile Ala Val Phe
      260          265          270
Tyr Thr Val Gly Thr Ser Phe Leu Asn Pro Val Ile Tyr Thr Leu Lys
      275          280          285
Asn Thr Glu Val Lys Ser Ala Met Arg Lys Leu Trp Ser Lys Lys Leu
      290          295          300
Ile Thr Asp Asp Lys Arg
      305          310

```

<210> 1996

<211> 321

<212> PRT

<213> Unknown (H38g914 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(321)

<223> Xaa = Any Amino Acid

<400> 1996

```

Met Glu Thr Thr Asn His Ser Ala Val Thr Glu Phe Phe Leu Val Gly
      1           5           10           15
Leu Ser Gln Tyr Pro Glu Leu Gln Leu Phe Leu Phe Leu Leu Cys Leu
      20           25           30
Ile Met Tyr Met Ile Ile Leu Leu Gly Asn Ser Phe Leu Ile Ile Ile
      35           40           45
Thr Ile Leu Asp Ser Arg Leu His Thr Pro Met Tyr Phe Phe Leu Gly
      50           55           60

```



```

Asn Leu Ser Phe Leu Gly Ile Cys Tyr Thr Ser Ser Ser Ile Pro Pro
65          70          75          80
Met Leu Ile Ile Phe Val Ser Glu Arg Lys Ser Ile Ser Phe Ile Gly
85          90          95
Cys Ala Leu Gln Met Val Val Ser Leu Gly Leu Gly Ser Ile Glu Cys
100        105        110
Ile Leu Leu Ala Val Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Asn
115        120        125
Pro Leu Arg Tyr Ser Ile Ile Met Asn Arg Val Leu Tyr Val Gln Met
130        135        140
Ala Ala Trp Ser Trp Ile Ile Gly Cys Leu Thr Ser Leu Leu Arg Thr
145        150        155        160
Val Leu Thr Met Met Leu Pro Phe Cys Gly Asn Asn Ile Ile Asp His
165        170        175
Leu Thr Cys Glu Ile Leu Ala Leu Leu Lys Val Ile Cys Ser Asp Ile
180        185        190
Ser Ile Asn Val Phe Ile Met Thr Val Ser Ser Ile Val Leu Leu Val
195        200        205
Ile Leu Leu Ile Phe Ile Ser Tyr Val Phe Ile Leu Ser Ser Ile Leu
210        215        220
Arg Ile Asn Ser Ala Glu Gly Arg Lys Lys Ala Phe Phe Thr Cys Ser
225        230        235        240
Ala His Leu Thr Val Val Ile Leu Phe Tyr Gly Ser Val Leu Phe Met
245        250        255
His Met Lys Pro Lys Ser Lys Phe Thr Thr Ala Ser Asp Glu Ile Ile
260        265        270
Gly Leu Ser Tyr Glu Val Ile Thr Pro Met Asn Pro Ile Ile Tyr Ser
275        280        285
Leu Arg Asn Lys Glu Ile Lys Glu Ala Val Lys Lys Ile Leu Ser Arg
290        295        300
His Val His Leu Trp Lys Ile Xaa Lys Ala Leu Arg His Val Thr Phe
305        310        315        320
Ser

```

<210> 1997

<211> 177

<212> PRT

<213> Unknown (H38g915 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(177)

<223> Xaa = Any Amino Acid

<400> 1997

```

Ala Val Xaa Trp Ile Ser Ala Glu Phe Ala Leu Pro Met Tyr Phe Phe
1          5          10          15
Leu Lys Asn Leu Ser Val Leu Asp Leu Cys Tyr Ile Ser Val Thr Val
20        25        30
Pro Lys Ser Ile Arg Asn Ser Leu Thr Arg Arg Ser Ser Ile Ser Tyr
35        40        45
Leu Gly Cys Val Ala Gln Ala Tyr Phe Phe Ser Ala Phe Ala Ser Ala
50        55        60
Glu Leu Ala Phe Leu Thr Val Met Ser Tyr Asp Arg Tyr Val Ala Ile
65        70        75        80
Cys His Pro Leu Gln Tyr Arg Ala Val Met Thr Ser Gly Gly Cys Tyr
85        90        95
Gln Met Ala Val Thr Thr Trp Leu Ser Cys Phe Ser Tyr Ala Ala Val

```

| | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|
| | | 100 | | | | | | 105 | | | | | 110 | | | | |
| His | Thr | Gly | Asn | Met | Phe | Arg | Glu | His | Val | Cys | Arg | Ser | Asn | Val | Ile | | |
| | | 115 | | | | | | 120 | | | | | 125 | | | | |
| His | Gln | Phe | Phe | Arg | Asp | Ile | Pro | Gln | Val | Leu | Ala | Leu | Val | Ser | Xaa | | |
| | | 130 | | | | 135 | | | | | 140 | | | | | | |
| Glu | Val | Phe | Phe | Val | Glu | Leu | Xaa | Pro | Ser | Pro | Glu | Pro | Gln | Cys | Leu | | |
| 145 | | | | | 150 | | | | | 155 | | | | | 160 | | |
| Asp | Leu | Gly | Cys | Phe | Ile | Pro | Met | Met | Ile | Ser | Asn | Phe | Pro | Asn | Leu | | |
| | | | 165 | | | | | | 170 | | | | | 175 | | | |

Leu

<210> 1998

<211> 191

<212> PRT

<213> Unknown (H38g916 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(191)

<223> Xaa = Any Amino Acid

<400> 1998

| | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|
| Val | Xaa | Trp | Ile | Ser | Ala | Glu | Phe | Ala | Leu | Pro | Met | Tyr | Leu | Phe | Leu | | |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | | | |
| Ser | Asp | Leu | Ser | Phe | Leu | Asp | Leu | Cys | Phe | Thr | Thr | Ser | Cys | Val | Pro | | |
| | | 20 | | | | | | 25 | | | | | 30 | | | | |
| Gln | Met | Leu | Val | Asn | Leu | Trp | Gly | Pro | Lys | Lys | Thr | Ile | Ser | Phe | Leu | | |
| | | 35 | | | | 40 | | | | | | 45 | | | | | |
| Gly | Cys | Ser | Val | Gln | Leu | Phe | Ile | Phe | Leu | Ser | Leu | Gly | Thr | Thr | Glu | | |
| | 50 | | | | 55 | | | | | | 60 | | | | | | |
| Cys | Ile | Leu | Leu | Thr | Val | Met | Ala | Phe | Asp | Arg | Tyr | Val | Ala | Val | Cys | | |
| 65 | | | | 70 | | | | | 75 | | | | | | 80 | | |
| Gln | Pro | Leu | His | Tyr | Ala | Thr | Ile | Ile | His | Pro | Arg | Leu | Cys | Trp | Gln | | |
| | | | 85 | | | | | 90 | | | | | 95 | | | | |
| Leu | Ala | Ser | Val | Ala | Trp | Val | Met | Ser | Leu | Val | Gln | Ser | Ile | Val | Gln | | |
| | | 100 | | | | | 105 | | | | | | 110 | | | | |
| Thr | Ser | Ser | Thr | Leu | His | Leu | Pro | Phe | Cys | Pro | His | Gln | Gln | Ile | Asp | | |
| | 115 | | | | | 120 | | | | | | 125 | | | | | |
| Asp | Phe | Leu | Cys | Glu | Val | Pro | Ser | Leu | Ile | Arg | Leu | Ser | Xaa | Gly | Asp | | |
| | 130 | | | | 135 | | | | | | 140 | | | | | | |
| Thr | Ser | Tyr | Asn | Glu | Ile | Gln | Leu | Thr | Val | Ser | Ser | Val | Ile | Leu | Val | | |
| 145 | | | | 150 | | | | | | 155 | | | | | 160 | | |
| Asp | Val | Pro | Leu | Ser | Leu | Ile | Leu | Ala | Ser | Tyr | Gly | Ala | Thr | Ala | Gln | | |
| | | | 165 | | | | | 170 | | | | | | 175 | | | |
| Ala | Gly | Leu | Arg | Ile | Asn | Phe | Ala | Lys | Ala | Trp | Lys | Lys | Gly | Leu | | | |
| | | 180 | | | | | | 185 | | | | | 190 | | | | |

<210> 1999

<211> 134

<212> PRT

<213> Unknown (H38g921 protein)

<220>

<223> Synthetic construct

<400> 1999

| | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|
| Cys | Tyr | Pro | Leu | Gln | Leu | Arg | Lys | Pro | Phe | Met | Ser | Ser | Leu | Ala | Leu | | |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | | | |

Gln Ala Gln Ala Trp Pro Trp Val Pro Gly Ser Gly Gly Phe Val Ala
 20 25 30
 Ile Ala Val Pro Thr Ser Pro Ser Ser Ser Gly Leu Ser Phe Cys Gly
 35 40 45
 Pro Pro Val Ala Ile Asn His Phe Leu Ser Cys Asp Ile Ala Pro Leu
 50 55 60
 Ile Ala Leu Ala Cys Thr Gln His Thr Gly Ser Glu Ser Phe Val Ala
 65 70 75 80
 Phe Val Ile Ala Val Val Val Ile Leu Ser Ser Cys Leu Ile Thr Leu
 85 90 95
 Val Ser His Met Cys Thr Ser Ser Ser Thr Ile Leu Arg Ile Pro Ser
 100 105 110
 Ala Ser Gly Arg Lys Gln Ser Leu Ser Pro Arg Ala Pro Arg His Leu
 115 120 125
 Thr Val Val Leu Ile Leu
 130

<210> 2000

<211> 196

<212> PRT

<213> Unknown (H38g924 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(196)

<223> Xaa = Any Amino Acid

<400> 2000

Thr Pro Pro Met Tyr Phe Leu Phe Leu Gly Glu Ala Glu Cys Phe Leu
 1 5 10 15
 Leu Ala Thr Met Glu Tyr Asp Arg Tyr Glu Asp Ile Cys Ser Pro Leu
 20 25 30
 Asn Tyr Pro Val Ile Met Asn Gln Arg Thr Arg Ala Lys Leu Ala Gly
 35 40 45
 Asp Ser Trp Val Pro Ser Phe Pro Glu Ala Thr Glu Gln Ala Thr Met
 50 55 60
 Ala Leu Arg Phe Pro Phe Xaa Gly Thr Asn Lys Val Asn His Leu Phe
 65 70 75 80
 Leu Arg Gln Pro Ala Val Leu Lys Ala Gly Leu Met Gln Asp Thr Ala
 85 90 95
 Leu Phe Glu Ile Tyr Ala Ile Val Gly Thr Ile Leu Val Ala Met Asn
 100 105 110
 Pro Cys Leu Leu Ile Leu Ser Ser Tyr Thr Arg Ile Gly Ala Ala Ile
 115 120 125
 Pro Gln Glu Pro Ile Lys Leu Lys Gly Lys Gln Xaa Arg Pro Phe Ser
 130 135 140
 Thr Cys Ser Xaa His Leu Pro Trp Trp Pro Leu Phe Ser Asn Ile Ile
 145 150 155 160
 Ile Xaa Ala Ser Thr Tyr Phe Leu Gly Leu Lys Ser Asn Lys Phe Phe
 165 170 175
 Trp Arg Gly Lys Lys Val Val Phe Ile Tyr Thr Thr Leu Val Glu Thr
 180 185 190
 Pro Xaa Trp Asn
 195

<210> 2001

<211> 128

<212> PRT

<213> Unknown (H38g925 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(128)

<223> Xaa = Any Amino Acid

<400> 2001

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| His | Cys | Met | Phe | Leu | Ala | His | Gly | Ser | Pro | Leu | Pro | Pro | Thr | Gln | Leu |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |
| Pro | Ile | Xaa | Phe | Cys | Asp | Tyr | Ile | Ser | His | Arg | Tyr | Leu | Thr | Cys | His |
| | | | 20 | | | | | 25 | | | | | 30 | | |
| Leu | Ser | Leu | Pro | Asn | Ser | Phe | Ser | Ser | Phe | Pro | Tyr | Gln | Xaa | Ile | |
| | | 35 | | | | | 40 | | | | 45 | | | | |
| Leu | Pro | Leu | Ser | Leu | Leu | Ala | Gln | Ala | Arg | Asn | Pro | Gly | Ile | Ile | Phe |
| | 50 | | | | | 55 | | | | 60 | | | | | |
| Phe | Leu | Pro | Thr | Phe | Asn | Ala | Leu | Xaa | Ser | Pro | Val | His | Ser | Thr | Ser |
| 65 | | | | | 70 | | | | 75 | | | | | 80 | |
| Xaa | Arg | Leu | Ser | Leu | Ser | Thr | Tyr | Tyr | Tyr | Ala | Ser | Gln | Glu | Thr | Ile |
| | | | 85 | | | | | 90 | | | | | 95 | | |
| Ser | Pro | Arg | Phe | Asp | Ser | Thr | Ala | Val | Ala | Ser | Tyr | Leu | Ile | Phe | Leu |
| | | | 100 | | | | | 105 | | | | | 110 | | |
| His | Leu | Leu | Trp | Pro | Ile | Phe | Asn | Pro | Phe | Ile | Tyr | Cys | Leu | Arg | Asn |
| | | 115 | | | | | 120 | | | | | 125 | | | |

<210> 2002

<211> 192

<212> PRT

<213> Unknown (H38g926 protein)

<220>

<223> Synthetic construct

<400> 2002

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Phe | Phe | Leu | Thr | Leu | Ala | Gly | Ala | Glu | Ala | Leu | Leu | Leu | Thr | Ser | Met |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |
| Ala | Tyr | Asp | Arg | Tyr | Val | Ala | Ile | Cys | Phe | Pro | Leu | His | Tyr | Leu | Ile |
| | | | 20 | | | | | 25 | | | | | 30 | | |
| Arg | Met | Arg | Lys | Arg | Val | Cys | Ala | Leu | Met | Ile | Thr | Gly | Ser | Trp | Met |
| | | 35 | | | | 40 | | | | | 45 | | | | |
| Ile | Gly | Ser | Ile | Asn | Ser | Cys | Ala | His | Thr | Val | Tyr | Ala | Leu | Arg | Ile |
| | 50 | | | | 55 | | | | | 60 | | | | | |
| Pro | Tyr | Cys | Lys | Ser | Arg | Ala | Ile | Asn | His | Phe | Phe | Cys | Asp | Val | Pro |
| 65 | | | | | 70 | | | | 75 | | | | | 80 | |
| Ala | Met | Leu | Thr | Leu | Ala | Cys | Thr | Asp | Thr | Trp | Val | Tyr | Glu | Cys | Thr |
| | | | 85 | | | | | 90 | | | | | 95 | | |
| Val | Phe | Leu | Ser | Thr | Thr | Ile | Phe | Leu | Val | Phe | Pro | Phe | Ile | Cys | Ile |
| | | | 100 | | | | | 105 | | | | | 110 | | |
| Ala | Cys | Ser | Tyr | Gly | Arg | Ile | Leu | Leu | Ala | Val | Tyr | His | Met | His | Ser |
| | | | 115 | | | | 120 | | | | | 125 | | | |
| Ala | Glu | Gly | Arg | Lys | Lys | Ala | Tyr | Ser | Thr | Cys | Ser | Thr | His | Leu | Thr |
| | 130 | | | | | 135 | | | | 140 | | | | | |
| Val | Val | Thr | Phe | Tyr | Tyr | Ala | Pro | Phe | Ala | Tyr | Thr | Tyr | Leu | Arg | Pro |
| 145 | | | | | 150 | | | | 155 | | | | | 160 | |
| Lys | Ser | Leu | Arg | Ser | Pro | Thr | Glu | Asp | Lys | Val | Leu | Ala | Val | Phe | Phe |
| | | | 165 | | | | | 170 | | | | | 175 | | |
| Phe | Ile | Ser | Ser | Phe | Ser | Ser | Asn | Pro | Phe | Met | Tyr | Thr | Leu | Arg | Asn |
| | | | 180 | | | | | 185 | | | | | 190 | | |

<210> 2003

<211> 158
 <212> PRT
 <213> Unknown (H38g927 protein)

<220>
 <223> Synthetic construct

<221> VARIANT
 <222> (1)...(158)
 <223> Xaa = Any Amino Acid

<400> 2003

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Met | Tyr | Phe | Phe | Leu | Ser | Met | Leu | Ser | Ile | Ser | Glu | Thr | Cys | Tyr |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |
| Met | Val | Ala | Ile | Thr | Pro | His | Met | Leu | Ser | Arg | Leu | Leu | Asn | Pro | His |
| | | | 20 | | | | | 25 | | | | | 30 | | |
| Xaa | Leu | Ile | Val | Met | Gln | Gly | Cys | Val | Thr | Gln | Leu | Phe | Tyr | Val | Thr |
| | | 35 | | | | | 40 | | | | | 45 | | | |
| Phe | Gly | Ile | Asn | Asn | Cys | Phe | Leu | Leu | Ile | Ala | Met | Gly | Tyr | Asp | Cys |
| | 50 | | | | 55 | | | | | 60 | | | | | |
| Tyr | Val | Val | Phe | Cys | Asn | Pro | Leu | Arg | Tyr | Ser | Xaa | Val | Arg | Gly | Leu |
| 65 | | | | | 70 | | | | 75 | | | | | 80 | |
| Cys | Val | Xaa | Leu | Gly | Ser | Gly | Ser | Leu | Arg | Ile | Gly | Leu | Gly | Met | Ala |
| | | | 85 | | | | | 90 | | | | | 95 | | |
| Ile | Val | Gln | Val | Thr | Ser | Met | Phe | Gly | Leu | Pro | Phe | Cys | Asp | Asp | Phe |
| | | | 100 | | | | | 105 | | | | | 110 | | |
| Val | Ile | Ser | His | Phe | Phe | Cys | Asp | Val | Arg | Pro | Leu | Leu | Lys | Leu | Ala |
| | | 115 | | | | 120 | | | | | 125 | | | | |
| Cys | Thr | Asp | Thr | Thr | Val | Asn | Glu | Ile | Ile | Asn | Phe | Val | Val | Ser | Val |
| | 130 | | | | | 135 | | | | 140 | | | | | |
| Cys | Val | Leu | Val | Leu | His | Ile | Ala | Leu | Ile | Phe | Ile | Ser | Tyr | | |
| 145 | | | | | 150 | | | | | 155 | | | | | |

<210> 2004
 <211> 192
 <212> PRT
 <213> Unknown (H38g928 protein)

<220>
 <223> Synthetic construct

<221> VARIANT
 <222> (1)...(192)
 <223> Xaa = Any Amino Acid

<400> 2004

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Leu | Ala | Thr | Lys | Ala | Tyr | Asp | Xaa | Tyr | Val | Pro | Ile | Arg | His | Pro |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |
| Phe | Pro | Tyr | Pro | Thr | Arg | Met | Ser | Pro | Ala | Met | Cys | Ala | Ala | Leu | Val |
| | | | 20 | | | | | 25 | | | | | 30 | | |
| Gly | Met | Ala | Trp | Leu | Val | Ser | His | Gly | Asn | Ser | Leu | Leu | Tyr | Ile | Leu |
| | | 35 | | | | | 40 | | | | | 45 | | | |
| Leu | Met | Ala | Arg | Leu | Ser | Phe | Leu | Cys | Phe | Pro | Thr | Lys | Cys | Thr | His |
| | 50 | | | | 55 | | | | | 60 | | | | | |
| Phe | Phe | Cys | Asp | Pro | Pro | Ser | Leu | Ser | Xaa | Arg | Leu | Ser | Cys | Ser | Asp |
| 65 | | | | | 70 | | | | 75 | | | | | 80 | |
| Asn | His | Thr | Ser | Lys | Leu | Leu | Ile | Phe | Thr | Lys | Gly | Ala | Ala | Val | Val |
| | | | 85 | | | | | 90 | | | | | 95 | | |
| Val | Thr | Pro | Leu | Leu | Ile | Leu | Ala | Ser | Leu | Trp | Asp | His | Asn | Lys | |
| | | 100 | | | | | 105 | | | | | 110 | | | |
| Leu | Thr | Val | Leu | Gln | Leu | Pro | Ser | Thr | Ser | Gly | Arg | Leu | Arg | Asp | Leu |

<210> 2007
 <211> 187
 <212> PRT
 <213> Unknown (H38g931 protein)

<220>
 <223> Synthetic construct

<221> VARIANT
 <222> (1)...(187)
 <223> Xaa = Any Amino Acid

<400> 2007
 Val Xaa Trp Ile Ser Ala Glu Phe Ala Leu Pro Met Tyr Leu Leu Leu
 1 5 10 15
 Ser Gln Leu Ser Leu Met Asp Leu Met Tyr Ile Ser Thr Thr Val Pro
 20 25 30
 Lys Met Ala Tyr Asn Phe Leu Ser Gly Gln Lys Gly Ile Ser Phe Leu
 35 40 45
 Gly Cys Gly Val Gln Ser Phe Phe Phe Leu Thr Met Ala Cys Ser Glu
 50 55 60
 Gly Leu Leu Leu Thr Ser Met Ala Tyr Asp Arg Tyr Leu Ala Ile Cys
 65 70 75 80
 His Ser Leu Tyr Tyr Pro Ile Arg Met Ser Lys Met Met Cys Val Lys
 85 90 95
 Met Ile Gly Gly Ser Trp Thr Leu Gly Ser Ile Asn Ser Leu Ala His
 100 105 110
 Thr Val Phe Ala Leu His Ile Pro Tyr Cys Arg Ser Arg Ala Ile Asp
 115 120 125
 His Phe Phe Cys Asp Val Pro Ala Met Leu Leu Leu Ser Cys Thr Asp
 130 135 140
 Thr Trp Val Tyr Glu Tyr Met Val Leu Xaa Gly Gln Ser Leu Phe Leu
 145 150 155 160
 Leu Leu Pro Phe Ile Gly Ile Thr Ser Ser Gly Arg Val Leu Ile
 165 170 175
 Ala Gly Tyr Ile Met His Ser Lys Glu Gly Arg
 180 185

<210> 2008
 <211> 62
 <212> PRT
 <213> Unknown (H38g934 protein)

<220>
 <223> Synthetic construct

<221> VARIANT
 <222> (1)...(62)
 <223> Xaa = Any Amino Acid

<400> 2008
 Gly Gly Asn Arg Lys Lys Arg Glu Lys Glu Gly Arg Lys Lys Arg Lys
 1 5 10 15
 Val Arg Lys Lys Thr Gly Xaa Gly Arg Xaa Glu Val Gly Leu Leu Lys
 20 25 30
 Gly Ser Asn Ile Val Met Tyr Met Ala Pro Lys Tyr Arg His Pro Glu
 35 40 45
 Glu Gln Lys Lys Val Leu Phe Leu Phe Tyr Ser Ser Phe Asn
 50 55 60

<210> 2009
 <211> 103
 <212> PRT
 <213> Homo sapien (1000494-1-1-323)

<400> 2009
 Pro Tyr Tyr Phe Cys Asp Leu Thr Pro Ile Leu Arg Leu Ser Val Thr
 1 5 10 15
 Asp Thr Ser Cys Asn Arg Ile Phe Ile Leu Ile Val Ala Gly Met Val
 20 25 30
 Ile Ala Thr Pro Phe Val Cys Ile Leu Ala Pro Tyr Ala Arg Ile Leu
 35 40 45
 Val Ala Ile Met Lys Val Pro Ser Ala Gly Gly Arg Lys Lys Ala Phe
 50 55 60
 Ser Ala Cys Ser Ser His Leu Ser Val Val Ala Leu Phe Tyr Gly Thr
 65 70 75 80
 Thr Ile Gly Val Tyr Leu Cys Arg Ser Ser Val Leu Thr Thr Ala Lys
 85 90 95
 Glu Lys Ala Ser Ala Val Met
 100

<210> 2010
 <211> 314
 <212> PRT
 <213> Homo sapien (1336040-1-1-945)

<400> 2010
 Met Glu Phe Thr Asp Arg Asn Tyr Thr Leu Val Thr Glu Phe Ile Leu
 1 5 10 15
 Leu Gly Phe Pro Thr Arg Pro Glu Leu Gln Ile Val Leu Phe Leu Met
 20 25 30
 Phe Leu Thr Leu Tyr Ala Ile Ile Leu Ile Gly Asn Ile Gly Leu Met
 35 40 45
 Leu Leu Ile Arg Ile Asp Pro His Leu Gln Thr Pro Met Tyr Phe Phe
 50 55 60
 Leu Ser Asn Leu Ser Phe Val Asp Leu Cys Tyr Phe Ser Asp Ile Val
 65 70 75 80
 Pro Lys Met Leu Val Asn Phe Leu Ser Glu Asn Lys Ser Ile Ser Tyr
 85 90 95
 Tyr Gly Cys Ala Leu Gln Phe Tyr Phe Phe Cys Thr Phe Ala Asp Thr
 100 105 110
 Glu Ser Phe Ile Leu Ala Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile
 115 120 125
 Cys Asn Pro Leu Leu Tyr Thr Val Val Met Ser Arg Gly Ile Cys Met
 130 135 140
 Arg Leu Ile Val Leu Ser Tyr Leu Gly Gly Asn Met Ser Ser Leu Val
 145 150 155 160
 His Thr Ser Phe Ala Phe Ile Leu Lys Tyr Cys Asp Lys Asn Val Ile
 165 170 175
 Asn His Phe Phe Cys Asp Leu Pro Pro Leu Leu Lys Leu Ser Cys Thr
 180 185 190
 Asp Thr Thr Ile Asn Glu Trp Leu Ser Thr Tyr Gly Ser Ser Val
 195 200 205
 Glu Ile Ile Cys Phe Ile Ile Ile Ile Ile Ser Tyr Phe Phe Ile Leu
 210 215 220
 Leu Ser Val Leu Lys Ile Arg Ser Phe Ser Gly Arg Lys Lys Thr Phe
 225 230 235 240
 Ser Thr Cys Ala Ser His Leu Thr Ser Val Thr Ile Tyr Gln Gly Thr
 245 250 255
 Leu Leu Phe Ile Tyr Ser Arg Pro Ser Tyr Leu Tyr Ser Pro Asn Thr
 260 265 270

Asp Lys Ile Ile Ser Val Phe Tyr Thr Ile Phe Ile Pro Val Leu Asn
 275 280 285
 Pro Leu Ile Tyr Ser Leu Arg Asn Lys Asp Val Lys Asp Ala Ala Glu
 290 295 300
 Lys Val Leu Arg Ser Lys Val Asp Ser Ser
 305 310

<210> 2011

<211> 317

<212> PRT

<213> Homo sapien (1336042-1-1-954)

<400> 2011

Met Gly Thr Asp Asn Gln Thr Trp Val Ser Glu Phe Ile Leu Leu Gly
 1 5 10 15
 Leu Ser Ser Asp Trp Asp Thr Arg Val Ser Leu Phe Val Leu Phe Leu
 20 25 30
 Val Met Tyr Val Val Thr Val Leu Gly Asn Cys Leu Ile Val Leu Leu
 35 40 45
 Ile Arg Leu Asp Ser Arg Leu His Thr Pro Met Tyr Phe Phe Leu Thr
 50 55 60
 Asn Leu Ser Leu Val Asp Val Ser Tyr Ala Thr Ser Val Val Pro Gln
 65 70 75 80
 Leu Leu Ala His Phe Leu Ala Glu His Lys Ala Ile Pro Phe Gln Ser
 85 90 95
 Cys Ala Ala Gln Leu Phe Phe Ser Leu Ala Leu Gly Gly Ile Glu Phe
 100 105 110
 Val Leu Leu Ala Val Met Ala Tyr Asp Arg Tyr Val Ala Val Cys Asp
 115 120 125
 Ala Leu Arg Tyr Ser Ala Ile Met His Gly Gly Leu Cys Ala Arg Leu
 130 135 140
 Ala Ile Thr Ser Trp Val Ser Gly Phe Ile Ser Ser Pro Val Gln Thr
 145 150 155 160
 Ala Ile Thr Phe Gln Leu Pro Met Cys Arg Asn Lys Phe Ile Asp His
 165 170 175
 Ile Ser Cys Glu Leu Leu Ala Val Val Arg Leu Ala Cys Val Asp Thr
 180 185 190
 Ser Ser Asn Glu Val Thr Ile Met Val Ser Ser Ile Val Leu Leu Met
 195 200 205
 Thr Pro Leu Cys Leu Val Leu Leu Ser Tyr Ile Gln Ile Ile Ser Thr
 210 215 220
 Ile Leu Lys Ile Gln Ser Arg Glu Gly Arg Lys Lys Ala Phe His Thr
 225 230 235 240
 Cys Ala Ser His Leu Thr Val Val Ala Leu Cys Tyr Gly Val Ala Ile
 245 250 255
 Phe Thr Tyr Ile Gln Pro His Ser Ser Pro Ser Val Leu Gln Glu Lys
 260 265 270
 Leu Phe Ser Val Phe Tyr Ala Ile Leu Thr Pro Met Leu Asn Pro Met
 275 280 285
 Ile Tyr Ser Leu Arg Asn Lys Glu Val Lys Gly Ala Trp Gln Lys Leu
 290 295 300
 Leu Trp Lys Phe Ser Gly Leu Thr Ser Lys Leu Ala Thr
 305 310 315

<210> 2012

<211> 318

<212> PRT

<213> Homo sapien (1369835-1-20155-22741)

<220>

<221> VARIANT

<222> (1)...(318)

<223> Xaa = Any Amino Acid

<400> 2012

```

Met Asp Arg Val Asn Asn Ser Ala Val Ser Lys Phe Val Leu Ile Gly
 1          5          10          15
Leu Ser Ser Ser Trp Glu Met His Leu Phe Leu Phe Trp Phe Phe Ser
          20          25          30
Val Phe Tyr Met Gly Ile Ile Leu Glu Asn Leu Phe Ile Val Phe Thr
          35          40          45
Val Ile Ile Asp Ser His Leu Asn Ser Pro Val Tyr Cys Leu Leu Ala
          50          55          60
Asn Ile Tyr Leu Leu Asp Leu Val Phe Ser Tyr Ser Ser Asp Phe Phe
65          70          75          80
Thr Asn Cys Ser Ile Ile Ser Phe Pro Arg Cys Met Ile Gln Ile Phe
          85          90          95
Phe Ile Cys Val Met Arg Lys Ile Glu Met Val Leu Leu Ile Thr Met
          100          105          110
Ala Xaa Ser Arg Tyr Thr Ala Ile Cys Lys Pro Pro His Tyr Leu Thr
          115          120          125
Thr Met Asn Pro Lys Met Cys Val Ser Leu Leu Glu Ala Ser Trp Ile
          130          135          140
Val Arg Ile Ile His Ala Val Ser Gln Phe Val Phe Ala Ile Asn Leu
145          150          155          160
Pro Phe Cys Gly Pro Asn Arg Val Gly Ser Phe His Cys Asp Phe Pro
          165          170          175
Tyr Val Met Lys Leu Ala Cys Val Asp Thr Tyr Lys Leu Glu Val Val
          180          185          190
Val Thr Ala Asn Ser Gly Leu Ile Ser Ile Ala Thr Cys Phe Leu Leu
          195          200          205
Ile Ile Ser Tyr Ile Phe Ile Ser Val Thr Val Xaa Asn Pro Ser Ser
          210          215          220
Gly Asp Leu Ser Lys Ala Phe Val Ser Cys Ser Asp His Ile Thr Val
225          230          235          240
Gly Ile Leu Phe Phe Met Pro Cys Ile Phe Leu Tyr Val Xaa Pro Leu
          245          250          255
Pro Lys Thr Thr His Asp Xaa Tyr Leu Phe Ile Val Pro Leu Leu Ser
          260          265          270
Pro Leu Ser Arg Ile Tyr Thr Leu Arg Asn Lys Asp Met Asn Val Ser
          275          280          285
Met Glu Arg Leu Gly Lys Trp Ile Ala Gly Ser Ser Arg Met Ser Xaa
          290          295          300
Xaa Met Val Leu Ser Arg Val Gln Asp Asp Ser Val Ser Pro
305          310          315

```

<210> 2013

<211> 319

<212> PRT

<213> Homo sapien (1857946-1-1-1049)

<220>

<221> VARIANT

<222> (1)...(319)

<223> Xaa = Any Amino Acid

<400> 2013

```

Phe Ser Ser Val Asn Asn Ser Cys Pro Arg Asn Val Arg Pro Val Leu
 1          5          10          15
Ser Val Trp Ala Met Tyr Leu Val Met Ile Gly Ser Ile Val Met Thr
          20          25          30
Met Leu Gly Asn Met Ile Val Met Ile Ser Ile Ala His Phe Lys Gln

```

```

      35              40              45
Leu His Ser Pro Thr Asn Phe Leu Ile Leu Ser Met Ala Ile Thr Asp
  50              55              60
Phe Leu Leu Ser Cys Val Val Met Pro Phe Ser Val Ile Thr Ser Ile
  65              70              75              80
Glu Ser Cys Trp Tyr Phe Gly Asp Leu Phe Cys Lys Val His Ser Cys
      85              90              95
Cys Asp Ile Ile Leu Cys Thr Thr Ser Ile Phe His Leu Cys Phe Ile
      100              105              110
Ser Val Asp Arg Tyr Asp Ala Val Xaa Asp Pro Leu Gln Tyr Val Thr
      115              120              125
Arg Ile Thr Ile Pro Val Ile Glu Leu Phe Leu Leu Ile Ser Trp Ser
      130              135              140
Ile Pro Ile Leu Phe Ala Phe Gly Leu Val Phe Ser Lys Leu Asn Ile
      145              150              155              160
Ile Gly Ala Glu Glu Phe Val Ala Ala Ile Asp Cys Thr Gly Leu Cys
      165              170              175
Val Leu Ile Phe Asn Lys Pro Gly Gly Val Leu Ala Ser Phe Ile Ala
      180              185              190
Phe Phe Leu Pro Gly Thr Thr Thr Val Gly Ile Tyr Ile His Ile Phe
      195              200              205
Thr Val Ala Arg Lys His Ala Met Gln Ile Gly Thr Gly Ser Arg Thr
      210              215              220
Lys Gln Ala Gly Ser Glu Ser Lys Lys Lys Trp His Pro Leu Lys Arg
      225              230              235              240
Glu Ser Lys Ala Thr Arg Thr Leu Gly Ile Val Met Gly Val Phe Val
      245              250              255
Leu Cys Trp Leu Pro Phe Phe Val Leu Thr Ile Thr Asp Pro Phe Ile
      260              265              270
Asn Phe Thr Thr Leu Glu Asp Leu Tyr Asn Val Phe Leu Trp Leu Gly
      275              280              285
Tyr Phe Asn Ser Ala Phe Asn Ser Ile Leu Tyr Gly Met Leu Tyr Pro
      290              295              300
Trp Phe Arg Lys Ala Leu Arg Met Ile Val Thr Gly Met Ile Phe
      305              310              315

```

<210> 2014

<211> 134

<212> PRT

<213> Homo sapien (2358019-1-250070-250529)

<220>

<221> VARIANT

<222> (1)...(134)

<223> Xaa = Any Amino Acid

<400> 2014

```

Leu Leu Phe Leu Met Phe Phe Ile Thr Ser Leu Gly His Lys Phe His
  1      5      10      15
Leu Ile Ser Phe Pro Phe Ser Gln Gln Thr Thr Xaa Gln Lys Tyr Phe
      20      25      30
Ile Ile Phe Glu Val Xaa Leu Cys Xaa Xaa His Thr Leu Thr Ala Leu
      35      40      45
Ile Tyr Cys Xaa Met Ser Leu Phe Xaa Gly Ile Asp Leu Phe Val Gly
      50      55      60
Tyr Asn Pro Cys Ser Pro Arg Val Leu Phe Leu Phe Leu Gly Arg Gly
      65      70      75      80
Pro Ser Gly Phe Ser Leu Glu Ser Leu Ser Phe Tyr Arg Thr Ser Phe
      85      90      95
Thr Trp Gln His Leu His Leu Lys Phe Tyr Cys Pro Ser Xaa Gly Xaa
      100      105      110

```

Leu Leu Lys Ser Phe Leu Ser Ala Ile Trp Leu Leu Phe Ser Thr Tyr
 115 120 125
 Phe Leu Arg Val Leu Ser
 130

<210> 2015
 <211> 127
 <212> PRT
 <213> Homo sapien (2447218-1-32642-33129)

<220>
 <221> VARIANT
 <222> (1)...(127)
 <223> Xaa = Any Amino Acid

<400> 2015
 Asn Leu Leu Pro Val Trp Thr Pro Gly Ser Arg Val Pro Ser Xaa Ser
 1 5 10 15
 Gln Ile Ser Val Ser Glu Lys Gln Gly Met Ser Phe Pro Lys Lys Leu
 20 25 30
 Phe Gln Asn His Lys Leu Phe Leu Phe Ala Gly Met Asn Val Phe
 35 40 45
 Leu Gln Thr Val Met Ala Tyr Asp His Phe Val Ala Ile Cys His Pro
 50 55 60
 Leu His Tyr Arg Val Ile Met Asn Pro Gly Ile Phe Gly Leu Trp Val
 65 70 75 80
 Leu Val Ser Trp Ser Met Ser Ala Leu Asn Ser Ser Leu Gln Ser Arg
 85 90 95
 Met Val Leu Gln Leu Ser Phe Cys Thr Asn Leu Glu Ile Pro His Ile
 100 105 110
 Phe Phe Cys Glu Leu Asn Gln Leu Ile Leu Leu Ala Cys Ser Asn
 115 120 125

<210> 2016
 <211> 216
 <212> PRT
 <213> Homo sapien (2921627-1-1-649)

<400> 2016
 Leu Ile Asp Met Met Tyr Ile Ser Thr Ile Val Pro Lys Met Leu Val
 1 5 10 15
 Asn Tyr Leu Leu Asp Gln Arg Thr Ile Ser Phe Val Gly Cys Thr Ala
 20 25 30
 Gln His Phe Leu Tyr Leu Thr Leu Val Gly Ala Glu Phe Phe Leu Leu
 35 40 45
 Gly Leu Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Asn Pro Leu Arg
 50 55 60
 Tyr Pro Val Leu Met Ser Arg Arg Val Cys Trp Met Ile Ile Ala Gly
 65 70 75 80
 Ser Trp Phe Gly Gly Ser Leu Asp Gly Phe Leu Leu Thr Pro Ile Thr
 85 90 95
 Met Ser Phe Pro Phe Cys Asn Ser Arg Glu Ile Asn His Phe Phe Cys
 100 105 110
 Glu Ala Pro Ala Val Leu Lys Leu Ala Cys Ala Asp Thr Ala Leu Tyr
 115 120 125
 Glu Thr Val Met Tyr Val Cys Cys Val Leu Met Leu Leu Ile Pro Phe
 130 135 140
 Ser Val Val Leu Ala Ser Tyr Ala Arg Ile Leu Thr Thr Val Gln Cys
 145 150 155 160
 Met Ser Ser Val Glu Gly Arg Lys Lys Ala Phe Ala Thr Cys Ser Ser
 165 170 175

His Met Thr Val Val Ser Leu Phe Tyr Gly Ala Ala Met Tyr Thr Tyr
 180 185 190
 Met Leu Pro His Ser Tyr His Lys Pro Ala Gln Asp Lys Val Leu Ser
 195 200 205
 Val Phe Tyr Thr Ile Leu Thr Pro
 210 215

<210> 2017

<211> 216

<212> PRT

<213> Homo sapien (2921629-1-1-649)

<400> 2017

Phe Val Asp Met Gly Leu Thr Ser Ser Thr Val Thr Lys Met Leu Val
 1 5 10 15
 Asn Ile Gln Thr Arg His His Thr Ile Thr Tyr Thr Gly Cys Leu Thr
 20 25 30
 Gln Met Tyr Phe Phe Leu Met Phe Gly Asp Leu Asp Ser Phe Phe Leu
 35 40 45
 Ala Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys His Pro Leu Cys
 50 55 60
 Tyr Ser Thr Val Met Arg Pro Gln Val Cys Ala Leu Met Leu Ala Leu
 65 70 75 80
 Cys Trp Val Leu Thr Asn Ile Val Ala Leu Thr His Thr Phe Leu Met
 85 90 95
 Ala Arg Leu Ser Phe Cys Val Thr Gly Glu Ile Ala His Phe Phe Cys
 100 105 110
 Asp Ile Thr Pro Val Leu Lys Leu Ser Cys Ser Asp Thr His Ile Asn
 115 120 125
 Glu Met Met Val Phe Val Leu Gly Gly Thr Val Leu Ile Val Pro Phe
 130 135 140
 Leu Cys Ile Val Thr Ser Tyr Ile His Ile Val Pro Ala Ile Leu Arg
 145 150 155 160
 Val Arg Thr Arg Gly Gly Val Gly Lys Ala Phe Ser Thr Cys Ser Ser
 165 170 175
 His Leu Cys Val Val Cys Val Phe Tyr Gly Thr Leu Phe Ser Ala Tyr
 180 185 190
 Leu Cys Pro Pro Ser Ile Ala Ser Glu Glu Lys Asp Ile Ala Ala Ala
 195 200 205
 Ala Met Tyr Thr Ile Val Thr Pro
 210 215

<210> 2018

<211> 212

<212> PRT

<213> Homo sapien (2921634-1-1-653)

<400> 2018

Cys His Ser Gln Val Ser Arg Leu Ala Gly Leu Gly Tyr Leu Glu Gly
 1 5 10 15
 Arg Arg Leu Ser Ser Ser Tyr Asn Ala Cys Ala Ala Gln Met Phe Phe
 20 25 30
 Phe Val Ala Leu Ala Thr Val Glu Asn Ile Leu Leu Thr Ser Met Ala
 35 40 45
 Tyr Asp His Tyr Ile Ala Val Cys Lys Pro Leu His Tyr Thr Thr Thr
 50 55 60
 Thr Ile Ala Ser Val Cys Ala His Leu Val Ile Gly Ser Tyr Val Cys
 65 70 75 80
 Gly Phe Leu Asn Ala Pro Leu Arg Ile Val Asp Ile Phe Ser Leu Ser
 85 90 95
 Phe Cys Lys Ser Asn Leu Val His His Leu Phe Cys Asp Val Pro Pro

```
<210> 2019
<211> 215
<212> PRT
<213> Homo sapien (2921639-1-1-647)
```

```
<210> 2020
<211> 212
<212> PRT
<213> Homo sapien (2921641-1-1-636)
```

```
<220>
<221> VARIANT
<222> (1)...(212)
<223> Xaa = Any Amino Acid
```

<400> 2020

Phe Val Asp Ile Ala Cys Ser Ser Ala Thr Ala Pro Lys Met Ile Val
 1 5 10 15
 Asp Ser Val Ser Glu Lys Lys Thr Ile Ser Tyr Trp Gly Cys Ile Thr
 20 25 30
 Gln Met Phe Thr Phe His Phe Phe Gly Cys Ala Asp Ile Phe Val Leu
 35 40 45
 Thr Val Met Ala Phe Asp Arg Tyr Ala Ala Ile Cys Gln Pro Leu Arg
 50 55 60
 Tyr Thr Val Ile Met Ser Ala Asn Ala Tyr Thr Val Leu Ala Ser Leu
 65 70 75 80
 Ser Trp Leu Gly Ala Leu Gly His Ser Phe Val Gln Thr Leu Leu Thr
 85 90 95
 Phe Gln Leu Pro Phe Cys Asn Ala Gln Val Ile Asp His Tyr Phe Cys
 100 105 110
 Asp Val His Pro Val Leu Lys Leu Ala Cys Ala Asp Thr Thr Leu Val
 115 120 125
 Ser Met Leu Val Val Ala Asn Ser Gly Leu Ile Ser Leu Gly Cys Phe
 130 135 140
 Leu Ile Leu Leu Ala Ser Tyr Thr Val Ile Leu Phe Ser Leu Gln Lys
 145 150 155 160
 Gln Ser Ala Glu Ser Xaa His Lys Val Leu Ser Thr Cys Gly Ser His
 165 170 175
 Leu Thr Ile Val Thr Phe Phe Phe Val Pro Cys Thr Phe Ile Tyr Arg
 180 185 190
 Pro Ser Thr Thr Phe Pro Leu Asp Lys Ala Val Ser Val Phe Tyr Thr
 195 200 205
 Thr Ile Thr Pro
 210

<210> 2021

<211> 216

<212> PRT

<213> Homo sapien (2921661-1-1-649)

<400> 2021

Leu Ala Asp Ala Cys Phe Val Ser Thr Thr Val Pro Lys Met Leu Ala
 1 5 10 15
 Asn Ile Gln Ile Gln Ser Gln Ala Ile Ser Tyr Ser Gly Cys Leu Leu
 20 25 30
 Gln Leu Tyr Phe Phe Met Leu Phe Val Met Leu Glu Ala Phe Leu Leu
 35 40 45
 Ala Val Met Ala Tyr Asp Cys Tyr Val Ala Ile Cys His Pro Leu His
 50 55 60
 Tyr Ile Leu Ile Met Ser Pro Gly Leu Arg Ile Phe Leu Val Ser Ala
 65 70 75 80
 Ser Trp Ile Met Asn Ala Leu His Ser Leu Leu His Thr Leu Leu Met
 85 90 95
 Asn Ser Leu Ser Phe Cys Ala Asn His Glu Ile Pro His Phe Leu Cys
 100 105 110
 Asp Ile Asn Pro Leu Leu Gly Leu Ser Cys Thr Asp Pro Phe Thr Asn
 115 120 125
 Glu Leu Val Ile Phe Ile Thr Gly Gly Leu Thr Gly Leu Ile Cys Val
 130 135 140
 Leu Cys Leu Ile Ile Ser Tyr Thr Asn Val Phe Ser Thr Ile Leu Lys
 145 150 155 160
 Ile Pro Ser Ala Gln Gly Lys Arg Lys Ala Phe Ser Thr Cys Ser Ser
 165 170 175
 His Leu Ser Val Val Ser Leu Phe Phe Gly Thr Ser Phe Cys Val Asp
 180 185 190
 Phe Ser Ser Pro Ser Thr His Ser Ala Gln Lys Asp Thr Val Ala Ser

195 200 205
 Val Met Tyr Thr Val Val Thr Pro
 210 215

<210> 2022
 <211> 216
 <212> PRT
 <213> Homo sapien (2921667-1-1-649)

<400> 2022
 Val Leu Asp Val Gly Cys Ile Thr Val Thr Val Pro Ala Met Leu Gly
 1 5 10 15
 Arg Leu Leu Ser His Lys Ser Thr Ile Ser Tyr Asp Ala Cys Leu Ser
 20 25 30
 Gln Leu Phe Phe Phe His Leu Leu Ala Gly Met Asp Cys Phe Leu Leu
 35 40 45
 Thr Ala Met Ala Tyr Asp Arg Leu Leu Ala Ile Cys Gln Pro Leu Thr
 50 55 60
 Tyr Ser Thr Arg Met Ser Gln Thr Val Gln Arg Met Leu Val Ala Ala
 65 70 75 80
 Ser Trp Ala Cys Ala Phe Thr Asn Ala Leu Thr His Thr Val Ala Met
 85 90 95
 Ser Thr Leu Asn Phe Cys Gly Pro Asn Glu Val Asn His Phe Tyr Cys
 100 105 110
 Asp Leu Pro Gln Leu Phe Gln Leu Ser Cys Ser Ser Thr Gln Leu Asn
 115 120 125
 Glu Leu Leu Leu Phe Val Ala Ala Phe Met Ala Val Ala Pro Leu
 130 135 140
 Val Phe Ile Ser Val Ser Tyr Ala His Val Val Ala Ala Val Pro Gln
 145 150 155 160
 Ile Arg Ser Ala Glu Gly Arg Lys Lys Ala Phe Ser Thr Cys Gly Ser
 165 170 175
 His Leu Thr Val Val Gly Ile Phe Tyr Gly Thr Gly Val Phe Ser Tyr
 180 185 190
 Met Arg Leu Gly Ser Ala Glu Ser Ser Asp Lys Asp Lys Gly Val Gly
 195 200 205
 Val Phe Met Thr Val Ile Asn Pro
 210 215

<210> 2023
 <211> 215
 <212> PRT
 <213> Homo sapien (2921686-1-1-646)

<400> 2023
 Trp Ala Asp Ile Ala Phe Thr Ser Ala Thr Val Pro Lys Met Ile Val
 1 5 10 15
 Asp Met Gln Ser His Arg Val Ile Ser Tyr Ala Ser Cys Leu Thr Gln
 20 25 30
 Met Ser Phe Phe Ala Leu Phe Ala Cys Ile Glu Asp Leu Leu Ile
 35 40 45
 Val Met Ala Tyr Asp Arg Phe Val Ala Val Cys His Ser Pro His Tyr
 50 55 60
 Pro Val Ile Met Asn Pro Arg Leu Gly Val Phe Phe Val Leu Val Ser
 65 70 75 80
 Phe Phe Leu Ser Leu Leu Asp Ser Gln Leu His Ser Trp Thr Val Leu
 85 90 95
 Gln Phe Thr Phe Phe Lys Asn Val Glu Ile Ser Asn Phe Val Cys Asp
 100 105 110
 Pro Ser Gln Leu Leu Asn Leu Ala Cys Ser Asp Ser Val Ile Asp Ser
 115 120 125


```

Ile Phe Ile Tyr Leu Asp Ser Thr Met Phe Arg Phe Leu Pro Ile Ser
  130                135                140
Gly Ile Leu Leu Ser Tyr Ser Asn Ile Val Pro Ser Ile Leu Arg Ile
  145                150                155                160
Ser Ser Ser Asp Gly Lys Ser Lys Ala Phe Ser Thr Cys Arg Ser His
                165                170                175
Leu Ala Val Val Cys Leu Phe Tyr Gly Thr Gly Ile Gly Val Tyr Leu
                180                185                190
Thr Thr Ala Ala Gly Thr Thr Pro Arg Ser Gly Val Val Val Ser Val
                195                200                205
Met Tyr Thr Val Val Thr Pro
  210                215

```

<210> 2024

<211> 217

<212> PRT

<213> Homo sapien (2921715-1-1-652)

<400> 2024

```

Ile Ile Asp Ile Ser Tyr Ala Ser Asn Lys Val Pro Lys Met Leu Thr
  1                5                10                15
Asn Leu Gly Leu Asn Lys Arg Lys Thr Ile Ser Phe Val Pro Cys Thr
                20                25                30
Met Gln Thr Phe Leu Tyr Met Ala Phe Ala His Thr Glu Cys Leu Ile
                35                40                45
Leu Val Met Met Ser Tyr Asp Arg Tyr Met Ala Ile Cys His Pro Leu
                50                55                60
Gln Tyr Ser Val Ile Met Arg Trp Gly Val Cys Thr Val Leu Ala Val
                65                70                75                80
Thr Ser Trp Ala Cys Gly Ser Leu Leu Ala Leu Val His Val Val Leu
                85                90                95
Ile Leu Arg Leu Pro Phe Cys Gly Pro His Glu Ile Asn His Phe Phe
                100                105                110
Cys Glu Ile Leu Ser Val Leu Lys Leu Ala Cys Ala Asp Thr Trp Leu
                115                120                125
Asn Gln Val Val Ile Phe Ala Ala Ser Val Phe Ile Leu Val Gly Pro
                130                135                140
Leu Cys Leu Val Leu Val Ser Tyr Ser Arg Ile Leu Ala Ala Ile Leu
  145                150                155                160
Arg Ile Gln Ser Gly Glu Gly Arg Arg Lys Ala Phe Ser Thr Cys Ser
                165                170                175
Ser His Leu Cys Met Val Gly Leu Phe Phe Gly Ser Ala Ile Val Met
                180                185                190
Tyr Met Ala Pro Lys Ser Arg His Pro Glu Glu Gln Gln Lys Val Leu
                195                200                205
Ser Leu Phe Tyr Ser Leu Phe Asn Pro
  210                215

```

<210> 2025

<211> 311

<212> PRT

<213> Homo sapien (3093312-1-33069-35776)

<400> 2025

```

Met Asn Asp Asp Gly Lys Val Asn Ala Ser Ser Glu Gly Tyr Phe Ile
  1                5                10                15
Leu Val Gly Phe Ser Asn Trp Pro His Leu Glu Val Val Ile Phe Val
                20                25                30
Val Val Leu Ile Phe Tyr Leu Met Thr Leu Ile Gly Asn Leu Phe Ile
                35                40                45
Ile Ile Leu Ser Tyr Leu Asp Ser His Leu His Thr Pro Met Tyr Phe

```

| | | |
|---|---|-----|
| 50 | 55 | 60 |
| Phe Leu Ser Asn Leu Ser | Phe Leu Asp Leu Cys Tyr Thr Thr Ser Ser | |
| 65 | 70 | 75 |
| Ile Pro Gln Leu Leu Val Asn Leu Trp Gly Pro Glu Lys Thr Ile Ser | | 80 |
| | 85 | 90 |
| Tyr Ala Gly Cys Met Ile Gln Leu Tyr Phe Val Leu Ala Leu Gly Thr | | 95 |
| | 100 | 105 |
| Thr Glu Cys Val Leu Leu Val Val Met Ser Tyr Asp Arg Tyr Ala Ala | | 110 |
| | 115 | 120 |
| Val Cys Arg Pro Leu His Tyr Thr Val Leu Met His Pro Arg Phe Cys | | 125 |
| | 130 | 135 |
| His Leu Leu Ala Val Ala Ser Trp Val Ser Gly Phe Thr Asn Ser Ala | | 140 |
| | 145 | 150 |
| Leu His Ser Ser Phe Thr Phe Trp Val Pro Leu Cys Gly His Arg Gln | | 155 |
| | 165 | 170 |
| Val Asp His Phe Phe Cys Glu Val Pro Ala Leu Leu Arg Leu Ser Cys | | 175 |
| | 180 | 185 |
| Val Asp Thr His Val Asn Glu Leu Thr Leu Met Ile Thr Ser Ser Ile | | 190 |
| | 195 | 200 |
| Phe Val Leu Ile Pro Leu Ile Leu Ile Leu Thr Ser Tyr Gly Ala Ile | | 205 |
| | 210 | 215 |
| Val Arg Ala Val Leu Arg Met Gln Ser Thr Thr Gly Leu Gln Lys Val | | 220 |
| | 225 | 230 |
| Phe Gly Thr Cys Gly Ala His Leu Met Ala Val Ser Leu Phe Phe Ile | | 235 |
| | 245 | 250 |
| Pro Ala Met Cys Ile Tyr Leu Gln Pro Pro Ser Gly Asn Ser Gln Asp | | 255 |
| | 260 | 265 |
| Gln Gly Lys Phe Ile Ala Leu Phe Tyr Thr Val Val Thr Pro Ser Leu | | 270 |
| | 275 | 280 |
| Asn Pro Leu Ile Tyr Thr Leu Arg Asn Lys Val Val Arg Gly Ala Val | | 285 |
| | 290 | 295 |
| Lys Arg Leu Met Gly Trp Glu | | 300 |
| 305 | 310 | |

<210> 2026

<211> 330

<212> PRT

<213> Homo sapien (3108020-1-23117-23433)

<220>

<221> VARIANT

<222> (1)...(330)

<223> Xaa = Any Amino Acid

<400> 2026

| | |
|---|-----|
| Met Glu Pro Glu Asn Asp Thr Arg Ile Ser Glu Phe Arg Leu Leu Gly | |
| 1 | 5 |
| Phe Ser Glu Glu Pro Arg Leu Gln Arg Phe Arg Phe Leu Phe Gly Val | |
| | 20 |
| Phe Leu Ser Met Tyr Leu Ile Ile Val Phe Gly Asn Leu Leu Ile Ile | |
| | 35 |
| Leu Val Ile Ile Leu Cys Ser His Leu His Thr Ser Met Tyr Phe Phe | |
| | 50 |
| Leu Ser Asn Leu Ser Phe Val Asp Ile Cys Phe Ala Ser Thr Arg Val | |
| | 65 |
| Pro Lys Met Leu Val Asn Ile Gln Ala Gln Ser Lys Val Ile Thr Ser | |
| | 85 |
| Ala Gly Cys Ile Thr Gln Met Tyr Phe Phe Ile His Phe Val Gly Leu | |
| | 100 |
| Asp Ser Phe Leu Leu Thr Val Met Ala Tyr Asp Arg Phe Val Ala Ile | |
| | 115 |
| | 120 |
| | 125 |

```

Cys His Pro Leu Tyr Tyr Thr Val Ile Met Asn Pro Gln Leu Cys Gly
130                      135                      140
Leu Leu Val Leu Val Ser Trp Ile Thr Ser Val Leu His Ser Leu Leu
145                      150                      155                      160
His Ser Leu Met Val Leu Gln Leu Ser Leu Cys Arg Glu Leu Glu Ile
165                      170                      175
Pro His Phe Phe Cys Glu Leu Asn Gln Val Ile His Leu Ala Cys Ser
180                      185                      190
Asp Thr Phe Leu Asn Asp Met Val Met Tyr Leu Ala Ala Val Leu Leu
195                      200                      205
Gly Gly Gly Ser Leu Ala Gly Ile Leu Tyr Ser Tyr Ser Lys Ile Val
210                      215                      220
Ser Ser Ile Cys Ala Ile Ser Ser Ala Gln Gly Lys Tyr Lys Ala Phe
225                      230                      235                      240
Ser Thr Cys Pro Ser His Leu Ser Val Val Ser Leu Phe Tyr Cys Thr
245                      250                      255
Ser Leu Gly Val Tyr Leu Ser Ser Ala Ala Ser His Asn Ser His Ser
260                      265                      270
Gly Ala Ile Ala Ser Val Arg Tyr Thr Val Val Thr Pro Met Leu Asn
275                      280                      285
Pro Phe Ile Tyr Ser Leu Arg Asn Lys Asp Ile Lys Arg Ala Leu Lys
290                      295                      300
Asn Ser Leu Gly Gly Lys Leu Glu Lys Gly Gln Leu Ser Xaa Gly Leu
305                      310                      315                      320
Lys Leu Tyr Pro Xaa Leu Gln Gly Ser Lys
325                      330

```

<210> 2027

<211> 319

<212> PRT

<213> Homo sapien (3108020-1-37593-38822)

<400> 2027

```

Met Glu Arg Gly Asn Gln Thr Glu Val Gly Asn Phe Leu Leu Leu Gly
1      5      10      15
Phe Ala Glu Asp Ser Asp Met Gln Leu Leu His Gly Leu Phe Leu
20      25      30
Ser Met Tyr Leu Val Thr Ile Ile Gly Asn Leu Leu Ile Ile Leu Thr
35      40      45
Ile Ser Ser Asp Ser His Leu His Thr Pro Met Tyr Phe Phe Leu Ser
50      55      60
Asn Leu Ser Phe Ala Asp Ile Cys Phe Thr Ser Thr Thr Val Pro Lys
65      70      75      80
Met Leu Val Asn Ile Gln Thr Gln Ser Lys Met Ile Thr Phe Ala Gly
85      90      95
Cys Leu Thr Gln Ile Phe Phe Phe Ile Ala Phe Gly Cys Leu Asp Asn
100     105     110
Leu Leu Leu Thr Met Thr Ala Tyr Asp Arg Phe Val Ala Ile Cys Tyr
115     120     125
Pro Leu His Tyr Thr Val Ile Met Asn Pro Arg Leu Cys Gly Leu Leu
130     135     140
Val Leu Gly Ser Trp Cys Ile Ser Val Met Gly Ser Leu Leu Glu Thr
145     150     155     160
Leu Thr Ile Leu Arg Leu Ser Phe Cys Thr Asn Met Glu Ile Pro His
165     170     175
Phe Phe Cys Asp Pro Ser Glu Val Leu Lys Leu Ala Cys Ser Asp Thr
180     185     190
Phe Ile Asn Asn Ile Val Met Tyr Phe Val Thr Ile Val Leu Gly Val
195     200     205
Phe Pro Leu Cys Gly Ile Leu Phe Ser Tyr Ser Gln Ile Phe Ser Ser
210     215     220

```

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Leu | Arg | Val | Ser | Ala | Arg | Gly | Gln | His | Lys | Ala | Phe | Ser | Thr | Cys |
| 225 | | | | | 230 | | | | | 235 | | | | | 240 |
| Gly | Ser | His | Leu | Ser | Val | Val | Ser | Leu | Phe | Tyr | Gly | Thr | Gly | Leu | Gly |
| | | | | 245 | | | | | 250 | | | | | 255 | |
| Val | Tyr | Leu | Ser | Ser | Ala | Val | Thr | Pro | Pro | Ser | Arg | Thr | Ser | Leu | Ala |
| | | | 260 | | | | | 265 | | | | | 270 | | |
| Ala | Ser | Val | Met | Tyr | Thr | Met | Val | Thr | Pro | Met | Leu | Asn | Pro | Phe | Ile |
| | | 275 | | | | | 280 | | | | | 285 | | | |
| Tyr | Ser | Leu | Arg | Asn | Lys | Asp | Met | Lys | Gly | Ser | Leu | Gly | Arg | Leu | Leu |
| | 290 | | | | | 295 | | | | 300 | | | | | |
| Leu | Arg | Ala | Thr | Ser | Leu | Lys | Glu | Gly | Thr | Ile | Ala | Lys | Leu | Ser | |
| 305 | | | | | 310 | | | | | 315 | | | | | |

<210> 2028

<211> 315

<212> PRT

<213> Homo sapien (3184261-1-5713-7336)

<400> 2028

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Glu | Pro | Glu | Lys | Gln | Thr | Glu | Ile | Ser | Glu | Phe | Phe | Leu | Gln | Gly |
| 1 | | | | 5 | | | | 10 | | | | | | 15 | |
| Leu | Ser | Glu | Lys | Pro | Glu | His | Gln | Thr | Leu | Leu | Phe | Thr | Met | Phe | Leu |
| | | | 20 | | | | | 25 | | | | | 30 | | |
| Ser | Thr | Tyr | Leu | Val | Thr | Ile | Ile | Gly | Asn | Ala | Leu | Ile | Ile | Leu | Ala |
| | | 35 | | | | 40 | | | | | 45 | | | | |
| Ile | Ile | Thr | Asp | Ser | His | Leu | His | Thr | Pro | Met | Tyr | Phe | Phe | Leu | Phe |
| | 50 | | | | 55 | | | | | 60 | | | | | |
| Asn | Leu | Ser | Leu | Val | Asp | Thr | Leu | Leu | Ser | Ser | Thr | Thr | Val | Pro | Lys |
| 65 | | | | 70 | | | | | 75 | | | | | 80 | |
| Met | Leu | Ala | Asn | Ile | Gln | Ala | Gln | Ser | Arg | Ala | Ile | Pro | Phe | Val | Gly |
| | | | 85 | | | | | 90 | | | | | | 95 | |
| Cys | Leu | Thr | Gln | Met | Tyr | Ala | Phe | His | Leu | Phe | Gly | Thr | Met | Asp | Ser |
| | | | 100 | | | | | 105 | | | | | 110 | | |
| Phe | Leu | Leu | Ala | Val | Met | Ala | Ile | Asp | Arg | Phe | Val | Ala | Ile | Val | His |
| | | 115 | | | | 120 | | | | | 125 | | | | |
| Pro | Gln | Arg | Tyr | Leu | Val | Leu | Met | Cys | Ser | Pro | Val | Cys | Gly | Leu | Leu |
| | | 130 | | | | 135 | | | | | 140 | | | | |
| Leu | Gly | Ala | Ser | Trp | Met | Ile | Thr | Asn | Leu | Gln | Ser | Leu | Ile | His | Thr |
| 145 | | | | | 150 | | | | | 155 | | | | 160 | |
| Cys | Leu | Met | Ala | Gln | Leu | Thr | Phe | Cys | Ala | Gly | Ser | Glu | Ile | Ser | His |
| | | | 165 | | | | | 170 | | | | | | 175 | |
| Phe | Phe | Cys | Asp | Leu | Met | Pro | Leu | Leu | Lys | Leu | Ser | Gly | Ser | Asp | Thr |
| | | 180 | | | | | | 185 | | | | | 190 | | |
| His | Thr | Asn | Glu | Leu | Val | Ile | Phe | Ala | Phe | Gly | Ile | Val | Val | Gly | Thr |
| | | 195 | | | | 200 | | | | | | 205 | | | |
| Ser | Pro | Phe | Ser | Cys | Ile | Leu | Leu | Ser | Tyr | Ile | Arg | Ile | Phe | Trp | Thr |
| | 210 | | | | | 215 | | | | | 220 | | | | |
| Val | Phe | Lys | Ile | Pro | Ser | Thr | Arg | Gly | Lys | Trp | Lys | Ala | Phe | Ser | Thr |
| 225 | | | | | 230 | | | | 235 | | | | | 240 | |
| Cys | Gly | Leu | His | Leu | Thr | Val | Val | Ser | Leu | Ser | Tyr | Gly | Thr | Ile | Phe |
| | | | 245 | | | | | 250 | | | | | | 255 | |
| Ala | Val | Tyr | Leu | Gln | Pro | Thr | Ser | Pro | Ser | Ser | Ser | Gln | Lys | Asp | Lys |
| | | | 260 | | | | | 265 | | | | | 270 | | |
| Ala | Ala | Ala | Leu | Met | Cys | Gly | Val | Phe | Ile | Pro | Met | Leu | Asn | Pro | Phe |
| | | 275 | | | | | 280 | | | | | 285 | | | |
| Ile | Tyr | Ser | Ile | Arg | Asn | Lys | Asp | Met | Lys | Ala | Ala | Leu | Gly | Lys | Leu |
| | 290 | | | | | 295 | | | | 300 | | | | | |
| Ile | Gly | Lys | Val | Ala | Val | Pro | Cys | Pro | Arg | Pro | | | | | |
| 305 | | | | | 310 | | | | | 315 | | | | | |

<210> 2029

<211> 318

<212> PRT

<213> Homo sapien (3213020-1-101040-103030)

<400> 2029

```

Met Trp Gln Lys Asn Gln Thr Ser Leu Ala Asp Phe Ile Leu Glu Gly
 1           5           10           15
Leu Phe Asp Asp Ser Leu Thr His Leu Phe Leu Phe Ser Leu Thr Met
      20           25           30
Val Val Phe Leu Ile Ala Val Ser Gly Asn Thr Leu Thr Ile Leu Leu
      35           40           45
Ile Cys Ile Asp Pro Gln Leu His Thr Pro Met Tyr Phe Leu Leu Ser
      50           55           60
Gln Leu Ser Leu Met Asp Leu Met His Val Ser Thr Thr Ile Leu Lys
      65           70           75           80
Met Ala Thr Asn Tyr Leu Ser Gly Lys Lys Ser Ile Ser Phe Val Gly
      85           90           95
Cys Ala Thr Gln His Phe Leu Tyr Leu Cys Leu Gly Gly Ala Glu Cys
      100          105          110
Phe Leu Leu Ala Val Met Ser Tyr Asp Arg Tyr Val Ala Ile Cys His
      115          120          125
Pro Leu Arg Tyr Ala Val Leu Met Asn Lys Lys Val Gly Leu Met Met
      130          135          140
Ala Val Met Ser Trp Leu Gly Ala Ser Val Asn Ser Leu Ile His Met
      145          150          155          160
Ala Ile Leu Met His Phe Pro Phe Cys Gly Pro Arg Lys Val Tyr His
      165          170          175
Phe Tyr Cys Glu Phe Pro Ala Val Val Lys Leu Val Cys Gly Asp Ile
      180          185          190
Thr Val Tyr Glu Thr Thr Val Tyr Ile Ser Ser Ile Leu Leu Leu
      195          200          205
Pro Ile Phe Leu Ile Ser Thr Ser Tyr Val Phe Ile Leu Gln Ser Val
      210          215          220
Ile Gln Met Arg Ser Ser Gly Ser Lys Arg Asn Ala Phe Ala Thr Cys
      225          230          235          240
Gly Ser His Leu Thr Val Val Ser Leu Trp Phe Gly Ala Cys Ile Phe
      245          250          255
Ser Tyr Met Arg Pro Arg Ser Gln Cys Thr Leu Leu Gln Asn Lys Val
      260          265          270
Gly Ser Val Phe Tyr Ser Ile Ile Thr Pro Thr Leu Asn Ser Leu Ile
      275          280          285
Tyr Thr Leu Arg Asn Lys Asp Val Ala Lys Ala Leu Arg Arg Val Leu
      290          295          300
Arg Arg Asp Val Ile Thr Gln Cys Ile Gln Arg Leu Gln Leu
      305          310          315

```

<210> 2030

<211> 114

<212> PRT

<213> Homo sapien (32504-1-1-343)

<400> 2030

```

Val Cys His Pro Leu His Tyr Met Ile Ile Met Asn Pro His Leu Cys
 1           5           10           15
Gly Leu Leu Val Phe Val Thr Trp Leu Ile Gly Val Met Thr Ser Leu
      20           25           30
Leu His Ile Ser Leu Met Met His Leu Ile Phe Cys Lys Asp Phe Glu
      35           40           45
Ile Pro His Phe Phe Cys Glu Leu Thr Tyr Ile Leu Gln Leu Ala Cys
      50           55           60
Ser Asp Thr Phe Leu Asn Ser Thr Leu Ile Tyr Phe Met Thr Gly Val

```

```
<210> 2031
<211> 114
<212> PRT
<213> Homo sapien (32508-1-1-343)
```

```
<210> 2032
<211> 112
<212> PRT
<213> Homo sapien (32509-1-1-338)
```

```
<210> 2033
<211> 114
<212> PRT
<213> Homo sapien (32513-1-1-343)
```

1186

```

      20      25      30
Ile Leu Thr Ser Leu Thr Phe Thr Leu Pro Tyr Cys Gly Pro Asn Glu
      35      40      45
Val Asp His Phe Phe Cys Asp Ile Pro Ala Leu Leu Pro Leu Ala Cys
      50      55      60
Ala Asp Thr Ser Leu Ala Gln Arg Val Ser Phe Thr Ser Val Gly Leu
      65      70      75      80
Ile Ser Leu Val Cys Phe Leu Leu Ile Leu Leu Ser Tyr Thr Arg Ile
      85      90      95
Thr Ile Ser Ile Leu Ser Ile Arg Thr Thr Glu Gly Arg Arg Arg Ala
      100      105      110
Phe Ser

```

<210> 2034

<211> 114

<212> PRT

<213> Homo sapien (32518-1-1-343)

<400> 2034

```

Ile Cys Lys Pro Leu Leu Tyr Pro Ala Ile Met Thr Asn Gly Leu Cys
1      5      10      15
Ile Arg Leu Leu Ile Leu Ser Tyr Val Gly Gly Leu Leu His Ala Leu
      20      25      30
Ile His Glu Gly Phe Leu Phe Arg Leu Thr Phe Cys Asn Ser Asn Ile
      35      40      45
Val His His Ile Tyr Cys Asp Ile Ile Pro Leu Ser Lys Ile Ser Cys
      50      55      60
Thr Asp Ser Ser Ile Asn Phe Leu Met Val Phe Ile Phe Ser Gly Ser
      65      70      75      80
Ile Gln Val Phe Ser Ile Val Thr Ile Leu Val Ser Tyr Thr Phe Val
      85      90      95
Leu Phe Ala Ile Leu Lys Arg Lys Ser Asp Lys Gly Val Arg Lys Ala
      100      105      110
Phe Ser

```

<210> 2035

<211> 148

<212> PRT

<213> Homo sapien (3289998-1-93404-94343)

<400> 2035

```

Met Val Leu Trp Leu Ser Phe Cys Thr Asp Leu Glu Ile Pro His Phe
1      5      10      15
Phe Cys Glu Leu Asn Gln Val Ile His Leu Ala Cys Ser Asp Thr Phe
      20      25      30
Leu Asn Asp Met Gly Met Tyr Phe Ala Ala Gly Leu Leu Ala Gly Gly
      35      40      45
Pro Leu Val Gly Ile Leu Cys Ser Tyr Ser Lys Ile Val Ser Ser Ile
      50      55      60
Arg Ala Ile Ser Ser Ala Gln Gly Lys Tyr Lys Ala Phe Ser Thr Cys
      65      70      75      80
Ala Ser His Leu Ser Val Val Ser Leu Phe Cys Cys Thr Gly Leu Gly
      85      90      95
Val Tyr Leu Thr Ser Ala Ala Thr His Asn Ser His Thr Ser Ala Thr
      100      105      110
Ala Ser Val Met Tyr Thr Val Ala Thr Pro Met Leu Asn Pro Phe Ile
      115      120      125
Tyr Ser Leu Arg Asn Lys Asp Ile Lys Arg Ala Leu Lys Met Ser Phe
      130      135      140

```

Arg Gly Lys Gln
145

<210> 2036

<211> 312

<212> PRT

<213> Homo sapien (3402736-1-7079-10933)

<400> 2036

```

Met Ser Ala Asn Thr Ser Met Val Thr Glu Phe Leu Leu Leu Gly Phe
 1          5          10          15
Ser His Leu Ala Asp Leu Gln Gly Leu Leu Phe Ser Val Phe Leu Thr
          20          25          30
Ile Tyr Leu Leu Thr Val Ala Gly Asn Phe Leu Ile Val Val Leu Val
          35          40          45
Ser Thr Asp Ala Ala Leu Gln Ser Pro Met Tyr Phe Phe Leu Arg Thr
          50          55          60
Leu Ser Ala Leu Glu Ile Gly Tyr Thr Ser Val Thr Val Pro Leu Leu
          65          70          75          80
Leu His His Leu Leu Thr Gly Arg Arg His Ile Ser Arg Ser Gly Cys
          85          90          95
Ala Leu Gln Met Phe Phe Phe Leu Phe Phe Gly Ala Thr Glu Cys Cys
          100          105          110
Leu Leu Ala Ala Met Ala Tyr Asp Arg Tyr Ala Ala Ile Cys Glu Pro
          115          120          125
Leu Arg Tyr Pro Leu Leu Leu Ser His Arg Val Cys Leu Gln Leu Ala
          130          135          140
Gly Ser Ala Trp Ala Cys Gly Val Leu Val Gly Leu Gly His Thr Pro
          145          150          155          160
Phe Ile Phe Ser Leu Pro Phe Cys Gly Pro Asn Thr Ile Pro Gln Phe
          165          170          175
Phe Cys Glu Ile Gln Pro Val Leu Gln Leu Val Cys Gly Asp Thr Ser
          180          185          190
Leu Asn Glu Leu Gln Ile Ile Leu Ala Thr Ala Leu Leu Ile Leu Cys
          195          200          205
Pro Phe Gly Leu Ile Leu Gly Ser Tyr Gly Arg Ile Leu Val Thr Ile
          210          215          220
Phe Arg Ile Pro Ser Val Ala Gly Arg Arg Lys Ala Phe Ser Thr Cys
          225          230          235          240
Ser Ser His Leu Ile Val Val Ser Leu Phe Tyr Gly Thr Ala Leu Phe
          245          250          255
Ile Tyr Ile Arg Pro Lys Ala Ser Tyr Asp Pro Ala Thr Asp Pro Leu
          260          265          270
Val Ser Leu Phe Tyr Ala Val Val Thr Pro Ile Leu Asn Pro Ile Ile
          275          280          285
Tyr Ser Leu Arg Asn Thr Glu Val Lys Ala Ala Leu Lys Arg Thr Ile
          290          295          300
Gln Lys Thr Val Pro Met Glu Ile
          305          310

```

<210> 2037

<211> 305

<212> PRT

<213> Homo sapien (3522966-1-8581-12533)

<400> 2037

```

Met Val Thr Glu Phe Ile Phe Leu Gly Leu Ser Asp Ser Gln Gly Leu
 1          5          10          15
Gln Thr Phe Leu Phe Met Leu Phe Phe Val Phe Tyr Gly Gly Ile Val
          20          25          30
Phe Gly Asn Leu Leu Ile Val Ile Thr Val Val Ser Asp Ser His Leu

```



```

      35      40      45
His Ser Pro Met Tyr Phe Leu Leu Ala Asn Leu Ser Leu Ile Asp Leu
  50      55      60
Ser Leu Ser Ser Val Thr Ala Pro Lys Met Ile Thr Asp Phe Phe Ser
  65      70      75      80
Gln Arg Lys Val Ile Ser Phe Lys Gly Cys Leu Val Gln Ile Phe Leu
      85      90      95
Leu His Phe Phe Gly Gly Ser Glu Met Val Ile Leu Ile Ala Met Gly
      100      105      110
Phe Asp Arg Tyr Ile Ala Ile Cys Lys Pro Leu His Tyr Thr Thr Ile
      115      120      125
Met Cys Gly Asn Ala Cys Val Gly Ile Met Ala Val Ala Trp Gly Ile
      130      135      140
Gly Phe Leu His Ser Val Ser Gln Leu Ala Phe Ala Val His Leu Pro
      145      150      155      160
Phe Cys Gly Pro Asn Glu Val Asp Ser Phe Tyr Cys Asp Leu Pro Arg
      165      170      175
Val Ile Lys Leu Ala Cys Thr Asp Thr Tyr Arg Leu Asp Ile Met Val
      180      185      190
Ile Ala Asn Ser Gly Val Leu Thr Val Cys Ser Phe Val Leu Leu Ile
      195      200      205
Ile Ser Tyr Thr Ile Ile Leu Met Thr Ile Gln His Arg Pro Leu Asp
      210      215      220
Lys Ser Ser Lys Ala Leu Ser Thr Leu Thr Ala His Ile Thr Val Val
      225      230      235      240
Leu Leu Phe Phe Gly Pro Cys Val Phe Ile Tyr Ala Trp Pro Phe Pro
      245      250      255
Ile Lys Ser Leu Asp Lys Phe Leu Ala Val Phe Tyr Ser Val Ile Thr
      260      265      270
Pro Leu Leu Asn Pro Ile Ile Tyr Thr Leu Arg Asn Lys Asp Met Lys
      275      280      285
Thr Ala Ile Arg Gln Leu Arg Lys Trp Asp Ala His Ser Ser Val Lys
      290      295      300
Phe
305

```

<210> 2038

<211> 142

<212> PRT

<213> Homo sapien (3738097-1-24383-25939)

<220>

<221> VARIANT

<222> (1)...(142)

<223> Xaa = Any Amino Acid

<400> 2038

```

Tyr Ile Glu Met Asp Asn Tyr Phe Leu Thr Xaa Leu Xaa Arg Tyr Leu
  1      5      10      15
Leu Phe Phe His Phe Ile Ile Ser Thr Gln Tyr Phe Gly Ile Lys Lys
      20      25      30
Phe Ile Leu Thr Ser Leu Leu Ala Tyr Cys Phe Trp Met Phe Ser Ile
      35      40      45
Thr Lys Phe Leu Thr Tyr Gly Leu Lys Trp Leu Leu Ile Pro Asp Cys
      50      55      60
Xaa Ser Trp Tyr Gln His Ala Xaa Phe Asn Pro Xaa Gln Ile Leu Phe
      65      70      75      80
Leu Gln Asn Ser Xaa Ser Trp Leu Glu Val Tyr Phe Tyr Leu Phe Leu
      85      90      95
Leu Phe Ala Val Pro Phe Asp Lys Ile Ile Phe Leu Ser Xaa Lys Met
      100      105      110

```

Tyr Leu Asn Lys Xaa Ile Ile Ser Val Leu Val Gly Thr Arg Trp Thr
 115 120 125
 Phe Gln Arg Cys Val His Thr Leu Cys Ile Leu Ser Leu Phe
 130 135 140

<210> 2039

<211> 297

<212> PRT

<213> Homo sapien (3738097-1-94180-96164)

<220>

<221> VARIANT

<222> (1)...(297)

<223> Xaa = Any Amino Acid

<400> 2039

Met Lys Xaa Met Ala Val Glu Asn Asn Ser Ser Val Thr Glu Phe Ile
 1 5 10 15
 Leu Val Arg Leu Thr Asn Ser Arg Cys Pro Ser Val Leu Phe Leu Met
 20 25 30
 Trp Ser Leu Trp Gly Glu Phe Glu His Asn Phe Met Ser Leu Asn Ser
 35 40 45
 His Leu His Thr Pro Thr His Phe Phe Leu Phe Thr Leu Ser Phe Ile
 50 55 60
 Asp Val Cys Tyr Ser Phe Val Cys Thr Thr Lys Ile Pro Met Gly Phe
 65 70 75 80
 Ile Ser Glu Arg Asn Ile Ile Ser Phe Val Gly Trp Pro Thr Xaa Leu
 85 90 95
 Tyr Phe Phe Cys Ile Phe Val Lys Glu Pro Lys Asn Gly Val Ile Val
 100 105 110
 Gly Ile Met Phe Ser Ala Lys Met Leu Val Cys Arg Glu Ile Met Asp
 115 120 125
 Xaa Ser Leu Met Xaa Asn Xaa Lys Met His Met Ala Leu Glu Arg Ser
 130 135 140
 Asp Phe Arg Met Gly Xaa Thr Gly Ser Ala Thr Lys Lys His Leu Ile
 145 150 155 160
 Ile Phe Leu Tyr Tyr Ser Asp Tyr Phe Gln Arg Xaa Xaa Gly Cys Arg
 165 170 175
 Ala Leu Gly Gln Gly Ser Leu Ala Lys Gln Asp Thr Xaa Leu Xaa Asn
 180 185 190
 Cys Thr Cys Thr Leu Lys Ser Leu Leu His Ile Ile Ile Cys Phe Tyr
 195 200 205
 Ile Trp Lys Gln Lys Lys Ile Ser Tyr Leu Tyr His Lys Ser Xaa Lys
 210 215 220
 Met Asp Leu Tyr Lys Ile Cys His Val Leu Trp Val Thr His Lys Lys
 225 230 235 240
 Asn Phe Leu Arg Pro Ser Ser Thr Ser Gln Met Val Gln Gly Lys Met
 245 250 255
 Leu Leu Lys Gly Tyr Ile Xaa Phe Trp Arg Met Ser Leu Pro Met Cys
 260 265 270
 Ala Ile Phe Ile Phe Val Arg Arg Tyr Tyr Leu Leu Lys Lys Leu
 275 280 285
 Lys Thr Leu Leu Tyr Lys Asn Ser Tyr
 290 295

<210> 2040

<211> 325

<212> PRT

<213> Homo sapien (3746441-1-1-1386)

<220>

<221> VARIANT

<222> (1)...(325)

<223> Xaa = Any Amino Acid

<400> 2040

```

Met Ala Asn Glu Asn Tyr Thr Lys Val Thr Xaa Phe Ile Phe Thr Gly
 1           5           10           15
Leu Asn Tyr Asn Pro Gln Leu Arg Val Phe Leu Phe Leu Leu Phe Leu
          20           25           30
Thr Thr Phe Tyr Val Ile Asn Val Thr Gly Asn Leu Gly Met Ile Val
          35           40           45
Leu Ile Arg Ile Asp Ser Arg Leu His Thr Pro Met Tyr Phe Phe Leu
 50           55           60
Ser His Leu Ser Phe Val Asp Thr Cys Phe Ser Ser Val Val Ser Pro
65           70           75           80
Lys Met Leu Thr Asp Phe Phe Val Lys Arg Lys Ala Ile Ser Phe Leu
          85           90           95
Gly Cys Ala Leu Gln Gln Trp Phe Phe Gly Phe Phe Val Ala Ala Asp
          100          105          110
Cys Phe Leu Leu Glu Ser Met Ala Tyr Asp Cys Tyr Val Ala Ile Cys
          115          120          125
Asn Pro Leu Leu Tyr Ser Val Ala Met Ser Gln Arg Leu Cys Ile Gln
130          135          140
Leu Val Val Gly Pro Tyr Val Ile Gly Leu Met Asn Thr Met Thr His
145          150          155          160
Thr Thr Asn Ala Phe Cys Leu Pro Phe Cys Gly Pro Asn Val Ile Asn
          165          170          175
Pro Phe Phe Cys Asp Met Ser Pro Leu Leu Ser Leu Val Cys Ala Asp
          180          185          190
Thr Arg Leu Asn Lys Leu Ala Val Phe Ile Val Ala Gly Ala Val Gly
          195          200          205
Val Phe Ser Gly Leu Thr Ile Leu Ile Ser Tyr Ile Tyr Ile Leu Met
210          215          220
Ala Ile Leu Arg Ile Arg Ser Ala Asp Gly Arg Cys Lys Thr Phe Ser
225          230          235          240
Thr Cys Ser Ser His Leu Thr Ala Val Phe Ile Leu Tyr Gly Thr Leu
          245          250          255
Phe Phe Ile Tyr Val His Pro Ser Ala Thr Phe Ser Leu Asp Leu Asn
          260          265          270
Lys Val Val Ser Val Phe Tyr Thr Ala Val Ile Pro Met Leu Asn Pro
          275          280          285
Leu Ile Tyr Ser Leu Arg Asn Lys Glu Val Lys Asp Ala Ile His Arg
          290          295          300
Thr Val Thr Gln Arg Lys Phe Cys Lys Ala Xaa Ile Leu Ile Gln Lys
305          310          315          320
Glu Leu Gly Arg Lys
          325

```

<210> 2041

<211> 328

<212> PRT

<213> Homo sapien (3766130-1-61888-64085)

<220>

<221> VARIANT

<222> (1)...(328)

<223> Xaa = Any Amino Acid

<400> 2041

```

Met Gly Gln Glu Asn Lys Asn Gln Thr Trp Val Ser Glu Phe Ile Leu
 1           5           10           15

```

Leu Gly Ile Ser Ser Asp Trp Gly Ile Gln Val Ser Leu Phe Ala Leu
 20 25 30
 Ile Leu Ala Met Tyr Leu Val Thr Ile Leu Gly Asn Thr Leu Ile Leu
 35 40 45
 Leu Leu Ile Arg Leu Asp Asn Arg Leu His Thr Pro Met Tyr Phe Ser
 50 55 60
 Leu Ser Val Leu Ser Phe Val Asp Phe Cys Tyr Thr Lys Ser Ile Val
 65 70 75 80
 Pro Gln Met Leu Ser His Leu Leu Ser Ala Arg Lys Ser Ile Pro Phe
 85 90 95
 Tyr Ser Cys Val Leu Gln Leu Tyr Val Ser Leu Ala Leu Cys Gly Ser
 100 105 110
 Glu Phe Phe Leu Leu Gly Ala Met Ala Tyr Asp Arg Tyr Val Ala Val
 115 120 125
 Cys His Pro Leu His Tyr Thr Val Ile Met His Gly Gly Leu Cys Leu
 130 135 140
 Gly Leu Ala Ala Ser Arg Leu Val Ala Gly Phe Ser Asn Ser Leu Met
 145 150 155 160
 Glu Thr Ile Ile Thr Phe Gln Leu Pro Val Ser Arg Phe Ile Asn His
 165 170 175
 Phe Val Cys Glu Thr Leu Ala Val Leu Gln Leu Ala Cys Val Asp Val
 180 185 190
 Pro Phe Asn Lys Val Met Val Ala Ile Ser Gly Phe Leu Val Ile Leu
 195 200 205
 Leu Pro Cys Ser Leu Val Leu Phe Ser Tyr Ala Cys Ile Val Ala Thr
 210 215 220
 Ile Leu Cys Ile Arg Ser Thr Gln Val Arg Cys Lys Ala Phe Gly Thr
 225 230 235 240
 Cys Ala Ser His Leu Ile Val Val Cys Met Cys Phe Gly Ala Thr Ile
 245 250 255
 Cys Thr Tyr Leu Gly Pro Gln Leu Ala Ser Ser Ala Glu Glu Glu Lys
 260 265 270
 Met Ile Ala Leu Phe Tyr Gly Val Val Ser Pro Met Leu Asn Pro Leu
 275 280 285
 Ile Tyr Ser Leu Arg Asn Lys Glu Val Thr Ala Ala Val Arg Lys Val
 290 295 300
 Leu Glu Arg Cys Arg Xaa Arg Val Lys Thr Leu Arg Thr Ser Cys Tyr
 305 310 315 320
 Leu Ser Ser Lys Pro Lys Arg Arg
 325

<210> 2042

<211> 311

<212> PRT

<213> Homo sapien (3766130-1-85703-88675)

<400> 2042

Met Glu Leu Glu Asn Gln Thr Arg Val Thr Lys Phe Ile Leu Val Gly
 1 5 10 15
 Phe Pro Gly Ser Leu Ser Met Arg Ala Ala Met Phe Leu Ile Phe Leu
 20 25 30
 Val Ala Tyr Ile Leu Thr Val Ala Glu Asn Val Ile Ile Ile Leu Leu
 35 40 45
 Val Leu Gln Asn Arg Pro Leu His Lys Pro Met Tyr Phe Phe Leu Ala
 50 55 60
 Asn Leu Ser Phe Leu Glu Thr Trp Tyr Ile Ser Val Thr Val Pro Lys
 65 70 75 80
 Leu Leu Phe Ser Phe Trp Ser Val Asn Asn Ser Ile Ser Phe Thr Leu
 85 90 95
 Cys Met Ile Gln Leu Tyr Phe Phe Ile Ala Leu Met Cys Thr Glu Cys
 100 105 110

Val Leu Leu Ala Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Arg
 115 120 125
 Pro Leu His Tyr Pro Thr Ile Met Ser His Gly Leu Cys Phe Arg Leu
 130 135 140
 Ala Leu Gly Ser Trp Ala Ile Gly Phe Gly Ile Ser Leu Ala Lys Ile
 145 150 155 160
 Tyr Phe Ile Ser Cys Leu Ser Phe Cys Gly Pro Asn Val Ile Asn His
 165 170 175
 Phe Phe Cys Asp Ile Ser Pro Val Leu Asn Leu Ser Cys Thr Asp Met
 180 185 190
 Ser Ile Thr Glu Leu Val Asp Phe Ile Leu Ala Leu Val Ile Phe Leu
 195 200 205
 Phe Pro Leu Phe Ile Thr Val Leu Ser Tyr Gly Cys Ile Leu Ala Thr
 210 215 220
 Ile Leu Cys Met Pro Thr Gly Lys Gln Lys Ala Phe Ser Thr Cys Ala
 225 230 235 240
 Ser His Leu Val Val Val Thr Ile Phe Tyr Ser Ala Ile Ile Phe Met
 245 250 255
 Tyr Ala Arg Pro Arg Val Ile His Ala Phe Asn Met Asn Lys Ile Ile
 260 265 270
 Ser Ile Phe Tyr Ala Ile Val Thr Pro Ser Leu Asn Pro Phe Ile Tyr
 275 280 285
 Cys Leu Arg Asn Arg Glu Val Lys Glu Ala Leu Lys Lys Leu Ala Tyr
 290 295 300
 Cys Gln Ala Ser Arg Ser Asp
 305 310

<210> 2043

<211> 216

<212> PRT

<213> Homo sapien (3831602-1-1-649)

<400> 2043

Phe Val Asp Val Cys Asn Ser Thr Thr Ile Thr Pro Lys Met Leu Ala
 1 5 10 15
 Asp Leu Leu Ser Glu Lys Lys Thr Ile Ser Phe Ala Gly Cys Phe Leu
 20 25 30
 Gln Met Tyr Phe Phe Ile Ser Leu Ala Thr Thr Glu Cys Ile Leu Phe
 35 40 45
 Gly Leu Met Ala Tyr Asp Arg Tyr Ala Ala Ile Cys Arg Pro Leu Leu
 50 55 60
 Tyr Ser Leu Ile Met Ser Arg Thr Val Tyr Leu Lys Met Ala Ala Gly
 65 70 75 80
 Ala Phe Ala Ala Gly Leu Leu Asn Phe Met Val Asn Thr Ser His Val
 85 90 95
 Ser Ser Leu Ser Phe Cys Asp Ser Asn Val Ile His His Phe Phe Cys
 100 105 110
 Asp Ser Pro Leu Phe Lys Leu Ser Cys Ser Asp Thr Ile Leu Lys
 115 120 125
 Glu Ser Ile Ser Ser Ile Leu Ala Gly Val Asn Ile Val Gly Thr Leu
 130 135 140
 Leu Val Ile Leu Ser Ser Tyr Ser Tyr Val Leu Phe Ser Ile Phe Ser
 145 150 155 160
 Met His Ser Gly Glu Gly Arg His Arg Ala Phe Ser Thr Cys Ala Ser
 165 170 175
 His Leu Thr Ala Ile Ile Leu Phe Tyr Ala Thr Cys Ile Tyr Thr Tyr
 180 185 190
 Leu Arg Pro Ser Ser Tyr Ser Leu Asn Gln Asp Lys Val Ala Ser
 195 200 205
 Val Phe Tyr Thr Val Val Ile Pro
 210 215

<210> 2044
 <211> 217
 <212> PRT
 <213> Homo sapien (3831605-1-1-652)

<220>
 <221> VARIANT
 <222> (1)...(217)
 <223> Xaa = Any Amino Acid

<400> 2044

```

Leu Pro Asp Ile Gly Phe Thr Ser Ala Thr Val Pro Lys Met Ile Glu
 1           5           10           15
Glu Met Gln Ser His Ser Arg Val Ile Tyr His Gly Asp Cys Leu Thr
          20           25           30
Gln Met Ser Phe Phe Val Leu Phe Ala Cys Lys Asp Asp Met Ile Leu
          35           40           45
Thr Val Met Ala Tyr Asp Trp Phe Val Ala Ile Cys His Pro Leu Asn
          50           55           60
Tyr Pro Gly Ile Met Asn Pro His Leu Cys Val Leu Leu Val Leu Val
65           70           75           80
Pro Phe Phe Leu Ser Leu Leu Asp Ser Gln Leu His Asn Leu Ile Val
          85           90           95
Leu Gln Phe Ile Cys Phe Lys Asn Val Glu Ile Ser Asn Phe Phe Cys
          100          105          110
Asp Pro Phe Gln Arg Leu Asn Leu Ala Cys Ser Asp Ser Asp Ile Asn
          115          120          125
Asn Ile Tyr Ile Tyr Leu Asp Ser Thr Ile Phe Gly Phe Leu Arg Ile
          130          135          140
Ser Gly Ile Leu Leu Cys Tyr Tyr Thr Val Val Phe Pro Ile Leu Arg
145           150           155           160
Ile Pro Ser Ser Asp Gly Asn Tyr Lys Ala Phe Ser Thr Xaa Gly Ser
          165          170          175
Arg Leu Ala Val Val Cys Leu Phe Tyr Gly Thr Gly Ile Gly Val Tyr
          180          185          190
Leu Thr Ser Ala Val Ser Ser Ser Pro Arg Asn Asp Val Val Ala Ser
          195          200          205
Val Met Tyr Ala Val Val Val Thr Pro
          210          215

```

<210> 2045
 <211> 214
 <212> PRT
 <213> Homo sapien (3831606-1-1-644)

<400> 2045

```

Phe Thr Asp Leu Phe Phe Val Thr Asn Thr Ile Pro Lys Met Leu Val
 1           5           10           15
Asn Leu Gln Ser Gln Asn Lys Ala Ile Ser Tyr Thr Gly Cys Leu Thr
          20           25           30
Gln Leu Tyr Phe Leu Val Ser Leu Val Ala Leu Asp Asn Leu Asn Leu
          35           40           45
Ala Val Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Arg Pro Leu His
          50           55           60
Tyr Val Thr Ala Met Ile Pro Gly Leu Cys Ile Leu Leu Leu Ser Leu
65           70           75           80
Cys Trp Val Phe Ser Ala Leu Tyr Gly Leu Ile His Ile Leu Leu Met
          85           90           95
Thr Arg Val Thr Phe Cys Gly Ser Gln Lys Ile His Tyr Leu Phe Cys
          100          105          110

```

Glu Met Tyr Phe Leu Leu Arg Leu Ala Cys Ser Asn Ile His Val Asn
 115 120 125
 His Thr Val Leu Val Ala Thr Gly Cys Phe Ile Phe Leu Ile Pro Leu
 130 135 140
 Gly Phe Met Ile Thr Ser Asn Ala Arg Ile Val Arg Ala Ile Leu Gln
 145 150 155 160
 Ile Pro Ser Ala Thr Gly Lys Tyr Lys Ala Phe Ser Thr Cys Ala Ser
 165 170 175
 His Leu Ala Val Val Ser Leu Phe Tyr Gly Thr Leu Gly Met Val Tyr
 180 185 190
 Leu Gln Pro Leu Gln Thr Tyr Ser Met Lys Asp Ser Val Ala Thr Val
 195 200 205
 Met His Ala Val Val Thr
 210

<210> 2046

<211> 278

<212> PRT

<213> Homo sapien (3831610-1-1-984)

<400> 2046

Met Ala Ile Arg Asn His Ser Thr Leu His Lys Pro Met Tyr Phe Phe
 1 5 10 15
 Leu Ala Asn Met Ser Phe Leu Glu Ile Trp Tyr Val Thr Val Thr Ile
 20 25 30
 Pro Lys Met Leu Ala Gly Phe Val Gly Ser Lys Gln Asp His Gly Gln
 35 40 45
 Leu Ile Ser Phe Glu Gly Cys Met Thr Gln Leu Tyr Phe Phe Leu Gly
 50 55 60
 Leu Gly Cys Thr Glu Cys Val Leu Leu Ala Val Met Ala Asn Asp Arg
 65 70 75 80
 Tyr Met Ala Ile Cys Tyr Leu Leu His Asn Pro Val Ile Val Ser Gly
 85 90 95
 Arg Leu Cys Val Gln Met Ala Ala Gly Ser Trp Ala Gly Gly Phe Gly
 100 105 110
 Ile Ser Met Val Lys Val Phe Leu Ile Ser Gly Leu Ser Asn Gly Gly
 115 120 125
 Pro Asn Ile Ile Asn His Phe Phe Cys Asp Val Ser Pro Leu Leu Asn
 130 135 140
 Leu Ser Cys Thr Asp Met Ser Thr Ala Glu Leu Thr Asp Phe Ile Leu
 145 150 155 160
 Ala Ile Phe Ile Leu Leu Gly Pro Leu Ser Val Thr Gly Ala Ser Tyr
 165 170 175
 Val Ala Ile Thr Gly Ala Val Met His Ile Pro Ser Ala Ala Gly Arg
 180 185 190
 Tyr Lys Ala Phe Ser Thr Cys Ala Ser His Phe Asn Val Val Ile Ile
 195 200 205
 Phe Tyr Ala Ala Ser Ile Phe Ile Tyr Ala Arg Pro Lys Ala Leu Ser
 210 215 220
 Ala Phe Asp Thr Asn Lys Leu Val Ser Val Leu Tyr Ala Val Ile Val
 225 230 235 240
 Pro Leu Leu Asn Pro Ile Ile Tyr Cys Leu Arg Asn Gln Glu Val Lys
 245 250 255
 Arg Ala Leu Cys Cys Ile Leu His Leu Tyr Gln His Gln Asp Pro Asp
 260 265 270
 Pro Lys Lys Gly Ser Arg
 275

<210> 2047

<211> 227

<212> PRT

<213> Homo sapien (3831615-1-1-684)

<400> 2047

```

Ser Phe Leu Glu Ile Gly Phe Asn Leu Val Ile Val Pro Lys Met Leu
 1           5           10           15
Gly Thr Leu Leu Ala Gln Asp Thr Thr Ile Ser Phe Leu Gly Cys Ala
          20           25           30
Thr Gln Met Tyr Phe Phe Phe Phe Phe Gly Val Ala Glu Cys Phe Leu
          35           40           45
Leu Ala Thr Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Ser Pro Leu
          50           55           60
His Tyr Pro Val Ile Met Asn Gln Arg Thr Arg Ala Lys Leu Ala Ala
65           70           75           80
Ala Ser Trp Phe Pro Gly Phe Pro Val Ala Thr Val Gln Thr Thr Trp
          85           90           95
Leu Phe Ser Phe Pro Phe Cys Gly Thr Asn Lys Val Asn His Phe Phe
          100          105          110
Cys Asp Ser Pro Pro Val Leu Lys Leu Val Cys Ala Asp Thr Ala Leu
          115          120          125
Phe Glu Ile Tyr Ala Ile Val Gly Thr Ile Leu Val Val Met Ile Pro
130          135          140
Cys Leu Leu Ile Leu Cys Ser Tyr Thr Arg Ile Ala Ala Ala Ile Leu
145          150          155          160
Lys Ile Pro Ser Ala Lys Gly Lys His Lys Ala Phe Ser Thr Cys Ser
          165          170          175
Ser His Leu Leu Val Val Ser Leu Phe Tyr Ile Ser Leu Ser Leu Thr
          180          185          190
Tyr Phe Arg Pro Lys Ser Asn Asn Ser Pro Glu Gly Lys Lys Leu Leu
          195          200          205
Ser Leu Ser Tyr Thr Val Met Thr Pro Met Leu Asn Pro Phe His Leu
210          215          220
Leu Ser Trp
225

```

<210> 2048

<211> 217

<212> PRT

<213> Homo sapien (3831618-1-1-653)

<400> 2048

```

Ser Leu Ala Asp Leu Cys Phe Ser Thr Asn Ile Val Pro Gln Ala Leu
 1           5           10           15
Val His Leu Leu Ser Arg Lys Lys Val Ile Ala Phe Thr Leu Cys Ala
          20           25           30
Ala Arg Leu Leu Phe Phe Leu Ile Phe Gly Cys Thr Gln Cys Ala Leu
          35           40           45
Leu Ala Val Met Ser Tyr Asp Arg Tyr Val Ala Ile Cys Asn Pro Leu
          50           55           60
Arg Tyr Pro Asp Ile Met Thr Trp Lys Val Cys Val Gln Leu Ala Thr
65           70           75           80
Gly Ser Trp Thr Ser Gly Ile Leu Val Ser Val Val Asp Thr Thr Phe
          85           90           95
Thr Leu Arg Leu Pro Tyr Arg Gly Ser Asn Ser Ile Ala His Phe Phe
          100          105          110
Cys Glu Ala Pro Ala Leu Leu Ile Leu Ala Ser Thr Asp Thr His Ala
          115          120          125
Ser Glu Met Ala Ile Phe Leu Thr Gly Val Val Ile Leu Leu Ile Pro
130          135          140
Val Phe Leu Ile Leu Val Ser Tyr Gly Arg Ile Ile Val Thr Val Val
145          150          155          160
Lys Met Lys Ser Thr Val Gly Ser Leu Lys Ala Phe Ser Thr Cys Gly

```


165 170 175
 Ser His Leu Met Val Val Ile Leu Phe Tyr Gly Ser Ala Ile Ile Thr
 180 185 190
 Tyr Met Thr Pro Lys Ser Ser Lys Gln Gln Glu Lys Ser Val Ser Val
 195 200 205
 Phe Tyr Ala Ile Val Thr Pro Met Leu
 210 215

<210> 2049

<211> 279

<212> PRT

<213> Homo sapien (3834584-1-78858-80128)

<400> 2049

Met Tyr Leu Ala Thr Val Leu Gly Asn Leu Leu Ile Ile Leu Ala Ile
 1 5 10 15
 Ser Ile Asp Ser Arg Leu His Thr Pro Met Tyr Phe Phe Leu Ser Asn
 20 25 30
 Met Ser Phe Val Asp Asn Cys Phe Ser Thr Thr Val Pro Lys Met Leu
 35 40 45
 Ala Asn His Ile Leu Arg Thr Gln Thr Ile Ser Phe Ser Gly Cys Leu
 50 55 60
 Met Gln Met Tyr Phe Ile Ser Glu Leu Ala Asp Met Asp Asn Phe Leu
 65 70 75 80
 Leu Ala Val Met Ala Tyr Asp Arg Phe Val Ala Val Cys Arg Pro Leu
 85 90 95
 His Tyr Thr Ala Lys Met Thr His Gln Leu Cys Ala Leu Leu Val Thr
 100 105 110
 Gly Ser Trp Val Val Ala Asn Ser Ala Leu Leu His Thr Leu Leu
 115 120 125
 Met Ala Arg Leu Ser Phe Cys Ala Asp Asn Thr Ile Pro His Ile Phe
 130 135 140
 Cys Asp Val Thr Pro Leu Leu Lys Leu Ser Cys Ser Asp Thr His Leu
 145 150 155 160
 Ser Glu Val Met Ile Leu Thr Glu Ala Ala Leu Val Thr Ile Thr Pro
 165 170 175
 Phe Leu Cys Leu Leu Ala Ser Tyr Met His Ile Thr Cys Val Val Leu
 180 185 190
 Arg Val Pro Ser Thr Lys Gly Arg Trp Lys Ala Phe Ser Thr Cys Gly
 195 200 205
 Ser His Leu Ala Val Val Leu Phe Tyr Gly Thr Ile Met Ser Pro
 210 215 220
 Tyr Phe Arg Thr Ser Ser His Ser Ala Gln Arg Asp Ile Ala Ala
 225 230 235 240
 Ala Val Arg Phe Thr Val Val Thr Pro Val Met Asn Pro Leu Ile Tyr
 245 250 255
 Ser Leu Arg Asn Lys Asp Ile Lys Gly Ala Leu Val Lys Val Val Ala
 260 265 270
 Val Lys Phe Phe Ser Val Gln
 275

<210> 2050

<211> 310

<212> PRT

<213> Homo sapien (3924656-1-75882-77814)

<400> 2050

Met Glu Pro Gln Asn Thr Thr Gln Val Ser Met Phe Val Leu Leu Gly
 1 5 10 15
 Phe Ser Gln Thr Gln Glu Leu Gln Lys Phe Leu Phe Leu Leu Phe Leu
 20 25 30

```

Leu Val Tyr Val Thr Thr Ile Val Gly Asn Leu Leu Ile Met Val Thr
   35                               40                               45
Val Thr Phe Asp Cys Arg Leu His Thr Pro Met Tyr Phe Leu Leu Arg
   50                               55                               60
Asn Leu Ala Leu Ile Asp Leu Cys Tyr Ser Thr Val Thr Ser Pro Lys
   65                               70                               75                               80
Met Leu Val Asp Phe Leu His Glu Thr Lys Thr Ile Ser Tyr Gln Gly
                               85                               90                               95
Cys Met Ala Gln Ile Phe Phe Phe His Leu Leu Gly Gly Gly Thr Val
                               100                               105                               110
Phe Phe Leu Ser Val Met Ala Tyr Asp Arg Tyr Ile Ala Ile Ser Gln
                               115                               120                               125
Pro Leu Arg Tyr Val Thr Ile Met Asn Thr Gln Leu Cys Val Gly Leu
   130                               135                               140
Val Val Ala Ala Trp Val Gly Gly Phe Val His Ser Ile Val Gln Leu
   145                               150                               155                               160
Ala Leu Ile Leu Pro Leu Pro Phe Cys Gly Pro Asn Ile Leu Asp Asn
                               165                               170                               175
Phe Tyr Cys Asp Val Pro Gln Val Leu Arg Leu Ala Cys Thr Asp Thr
                               180                               185                               190
Ser Leu Leu Glu Phe Leu Met Ile Ser Asn Ser Gly Leu Leu Val Ile
   195                               200                               205
Ile Trp Phe Leu Leu Leu Leu Ile Ser Tyr Thr Val Ile Leu Val Met
   210                               215                               220
Leu Arg Ser His Ser Gly Lys Ala Arg Arg Lys Ala Ala Ser Thr Cys
   225                               230                               235                               240
Thr Thr His Ile Ile Val Val Ser Met Ile Phe Ile Pro Cys Ile Tyr
                               245                               250                               255
Ile Tyr Thr Trp Pro Phe Thr Pro Phe Leu Met Asp Lys Ala Val Ser
                               260                               265                               270
Ile Ser Tyr Thr Val Met Thr Pro Met Leu Asn Pro Met Ile Tyr Thr
   275                               280                               285
Leu Arg Asn Gln Asp Met Lys Ala Ala Met Arg Arg Leu Gly Lys Cys
   290                               295                               300
Leu Val Ile Cys Arg Glu
   305                               310

```

<210> 2051

<211> 123

<212> PRT

<213> Homo sapien (3962498-1-83664-84695)

<400> 2051

```

Met Ser Gly Ser Pro Thr Gln Leu Thr Ala Gly Pro Arg Thr Ala Ser
   1                               5                               10                               15
Gly Cys Val Ile Met Ile Cys Phe Ala Leu Thr Val Leu Ser Tyr Ile
   20                               25                               30
Arg Ile Leu Ala Thr Val Val Gln Ile Arg Ser Ala Ala Ser Arg Arg
   35                               40                               45
Lys Ala Phe Ser Thr Cys Ser Ser His Leu Gly Met Val Leu Leu Phe
   50                               55                               60
Tyr Gly Thr Gly Ser Ser Thr Tyr Met Arg Pro Thr Thr Arg Tyr Ser
   65                               70                               75                               80
Pro Leu Glu Gly Arg Leu Ala Ala Val Phe Tyr Ser Ile Leu Ile Pro
   85                               90                               95
Thr Leu Asn Pro Leu Ile Tyr Ser Leu Arg Asn Gln Asp Met Lys Arg
   100                               105                               110
Ala Leu Trp Lys Leu Tyr Leu Gln Val Pro Tyr
   115                               120

```

<210> 2052

<211> 343
 <212> PRT
 <213> Homo sapien (3970959-1-83329-85626)

<220>
 <221> VARIANT
 <222> (1)...(343)
 <223> Xaa = Any Amino Acid

<400> 2052

```

Met Val Asn Gln Ser Ser Ala Pro Gly Phe Leu Leu Leu Gly Phe Ser
 1          5          10          15
Glu His Pro Ala Leu Glu Arg Thr Leu Phe Val Val Val Phe Thr Ser
          20          25          30
Tyr Leu Leu Thr Leu Gly Gly Leu Ile Ile Leu Leu Ser Val Leu Asp
          35          40          45
Pro Arg Leu His Ser Pro Met Tyr Phe Phe Leu Ser Asn Leu Ser Phe
          50          55          60
Leu Asp Leu Cys Phe Thr Ile Ser Cys Val Pro Gly Met Leu Val Asn
          65          70          75          80
Leu Trp Glu Pro Lys Lys Thr Ile Ile Leu Leu Gly Cys Ser Val Gln
          85          90          95
Phe Phe Ile Phe Leu Ser Leu Gly Thr Thr Glu Cys Ile Leu Leu Thr
          100          105          110
Val Met Ala Phe Asp Arg Tyr Met Ala Ile Phe Lys Pro Leu Arg His
          115          120          125
Ala Thr Ile Val His Leu Cys Leu Cys Trp Gln Leu Ala Ser Val Ala
          130          135          140
Trp Val Ile Gly Leu Val Glu Ser Val Val Gln Thr Pro Ser Thr Leu
          145          150          155          160
Arg Leu Pro Phe Cys Pro His Gln Gln Val Asp Asp Phe Val Cys Glu
          165          170          175
Val Pro Ala Leu Ile Arg Leu Ser Cys Glu Asp Thr Ser Tyr Asn Glu
          180          185          190
Ile Gln Met Ala Val Ala Ser Val Phe Ile Leu Ala Val Pro Ser Leu
          195          200          205
Ile Leu Val Ser Tyr Gly Ala Ile Ala Trp Ala Val Leu Arg Ile Thr
          210          215          220
Ala Lys Gly Gln Arg Lys Ala Phe Gly Thr Cys Ser Ser His Leu Thr
          225          230          235          240
Val Val Thr Leu Phe Tyr Ser Ser Val Ile Ala Val Tyr Leu Gln Pro
          245          250          255
Lys Asn Pro Tyr Ala Gln Glu Arg Gly Lys Phe Phe Gly Leu Phe Tyr
          260          265          270
Ala Val Gly Thr Pro Ser Leu Asn Pro Leu Ile Tyr Thr Leu Arg Asn
          275          280          285
Lys Glu Val Thr Arg Ala Phe Arg Arg Leu Leu Ala Lys Glu Met Gly
          290          295          300
Leu Ile Gln Ser Xaa Gly Arg Ala Val Xaa Cys Ala Phe Xaa Ile Lys
          305          310          315          320
Lys Lys Leu Phe Ile Leu Leu Xaa Thr Ser Leu Ser Ser Gln Val Tyr
          325          330          335
Tyr Leu Ser Tyr Thr His His
          340

```

<210> 2053
 <211> 312
 <212> PRT
 <213> Homo sapien (3982606-1-1-939)

<400> 2053

```

Met Asp Gly Val Asn Asp Ser Ser Leu Gln Gly Phe Val Leu Met Ser
 1          5          10          15
Ile Ser Asp His Pro Gln Leu Glu Met Ile Phe Phe Ile Ala Ile Leu
          20          25          30
Phe Ser Tyr Leu Leu Thr Leu Leu Gly Asn Ser Thr Ile Ile Leu Leu
          35          40          45
Ser Arg Leu Glu Ala Arg Leu His Thr Pro Met Tyr Phe Phe Leu Ser
          50          55          60
Asn Leu Ser Ser Leu Asp Leu Ala Phe Ala Thr Ser Ser Val Pro Gln
65          70          75          80
Met Leu Ile Asn Leu Trp Gly Pro Gly Lys Thr Ile Ser Tyr Gly Gly
          85          90          95
Cys Ile Thr Gln Leu Tyr Val Phe Leu Trp Leu Gly Ala Thr Glu Cys
          100          105          110
Ile Leu Leu Val Val Met Ala Phe Asp Arg Tyr Val Ala Val Cys Arg
          115          120          125
Pro Leu Arg Tyr Thr Ala Ile Met Asn Pro Gln Leu Cys Trp Leu Leu
          130          135          140
Ala Val Ile Ala Trp Leu Gly Gly Leu Gly Asn Ser Val Ile Gln Ser
145          150          155          160
Thr Phe Thr Leu Gln Leu Pro Leu Cys Gly His Arg Arg Val Glu Gly
          165          170          175
Phe Leu Cys Glu Val Pro Ala Met Ile Lys Leu Ala Cys Gly Asp Thr
          180          185          190
Ser Leu Asn Gln Ala Val Leu Asn Gly Val Cys Thr Phe Phe Thr Ala
          195          200          205
Val Pro Leu Ser Ile Ile Val Ile Ser Tyr Cys Leu Ile Ala Gln Ala
210          215          220
Val Leu Lys Ile His Ser Ala Glu Gly Arg Arg Lys Ala Phe Asn Thr
225          230          235          240
Cys Leu Ser His Leu Val Val Phe Leu Phe Tyr Gly Ser Ala Ser
          245          250          255
Tyr Gly Tyr Leu Leu Pro Ala Lys Asn Ser Lys Gln Asp Gln Gly Lys
          260          265          270
Phe Ile Ser Leu Phe Tyr Ser Leu Val Thr Pro Met Val Asn Pro Leu
          275          280          285
Ile Tyr Thr Leu Arg Asn Met Glu Val Lys Gly Ala Leu Arg Arg Leu
          290          295          300
Leu Gly Lys Gly Arg Glu Val Gly
305          310

```

<210> 2054

<211> 104

<212> PRT

<213> Homo sapien (3983513-1-17888-18909)

<220>

<221> VARIANT

<222> (1)...(104)

<223> Xaa = Any Amino Acid

<400> 2054

```

Val Pro Val Arg Cys Pro Gly Arg Val Arg Thr Leu Val Pro Glu Ile
 1          5          10          15
Ile Ser Val Asp Phe Pro Xaa Xaa Thr Leu Ile Xaa Gln Glu Val Tyr
          20          25          30
Gly Leu Leu Ser Thr Phe Pro Leu Phe Ala Gln Gly Val Cys Gly Pro
          35          40          45
Lys Ile Ile Ser Lys Ala Phe Cys Phe Ser Leu Leu Lys Gly Gly Cys
          50          55          60
Ser His Ser Leu Gln Leu Ala Lys Gly Gly Gly Val Leu Arg Lys Ala

```

65 70 75 80
 Gly Thr Leu Gly Met Leu Lys Val Ala Ser Val Cys Cys Ala Tyr His
 85 90 95
 Leu Leu Leu Val Leu Leu Ser Pro
 100

<210> 2055
 <211> 210
 <212> PRT
 <213> Homo sapien (4156137-1-118865-120877)

<220>
 <221> VARIANT
 <222> (1)...(210)
 <223> Xaa = Any Amino Acid

<400> 2055
 Ser Val Lys Tyr Leu Asn Glu Ser Phe Pro Glu Asp Phe Ile Leu Met
 1 5 10 15
 Gly Phe Val Lys Tyr Pro Trp Leu Asp Phe Leu Leu Phe Cys Val Leu
 20 25 30
 Leu Thr Phe Tyr Met Phe Thr Leu Gly Asn Ser Ala Ile Ile Leu
 35 40 45
 Val Ser Gln Leu Asp Ser Gln Leu His Ser Pro Met Tyr Phe Leu Leu
 50 55 60
 Thr Ser Leu Ser Val Leu Tyr Leu Cys Phe Thr Thr Thr Thr Val Pro
 65 70 75 80
 Gln Met Leu Phe Asn Leu Gly Gly Thr Asn Lys Asn Ile Thr Xaa Ile
 85 90 95
 Gly Cys Met Ala Gln Ala Tyr Val Phe His Trp Leu Ala Cys Thr Glu
 100 105 110
 Cys Val Leu Leu Gly Ile Val Ala Leu Asp Cys Tyr Val Ala Val Cys
 115 120 125
 Lys Pro Pro Arg Tyr Thr Ile Ile Ile Asp His Lys Val Tyr Leu His
 130 135 140
 Leu Ser Ser Thr Ala Trp Leu Ile Gly Leu Ala Asn Ser Leu Leu Gln
 145 150 155 160
 Ser Thr Ile Thr Ile Gln Leu Pro Leu Xaa Arg Cys Ile Ala Gln Ile
 165 170 175
 Phe Leu Xaa Leu Glu Ser Val Thr Xaa Gln Ser Leu Thr Val Thr Tyr
 180 185 190
 Leu Xaa Asp Leu Leu Gln His Ser Ile Xaa Gly Gln Leu His Ala Gly
 195 200 205
 Glu Leu
 210

<210> 2056
 <211> 310
 <212> PRT
 <213> Homo sapien (4156187-1-109107-111440)

<400> 2056
 Met Gly Asp Asn Ile Thr Ser Ile Thr Glu Phe Leu Leu Leu Gly Phe
 1 5 10 15
 Pro Val Gly Pro Arg Ile Gln Met Leu Leu Phe Gly Leu Phe Ser Leu
 20 25 30
 Phe Tyr Val Phe Thr Leu Leu Gly Asn Gly Thr Ile Leu Gly Leu Ile
 35 40 45
 Ser Leu Asp Ser Arg Leu His Ala Pro Met Tyr Phe Phe Leu Ser His
 50 55 60
 Leu Ala Val Val Asp Ile Ala Tyr Ala Cys Asn Thr Val Pro Arg Met

| | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------|
| 65 | | | | | 70 | | | | | 75 | | | | 80 |
| Leu | Val | Asn | Leu | Leu | His | Pro | Ala | Lys | Pro | Ile | Ser | Phe | Ala | Gly Arg |
| | | | | 85 | | | | | 90 | | | | | 95 |
| Met | Met | Gln | Thr | Phe | Leu | Phe | Ser | Thr | Phe | Ala | Val | Thr | Glu | Cys Leu |
| | | | 100 | | | | | 105 | | | | | 110 | |
| Leu | Leu | Val | Val | Met | Ser | Tyr | Asp | Leu | Tyr | Val | Ala | Ile | Cys | His Pro |
| | | 115 | | | | | 120 | | | | | 125 | | |
| Leu | Arg | Tyr | Leu | Ala | Ile | Met | Thr | Trp | Arg | Val | Cys | Ile | Thr | Leu Ala |
| | 130 | | | | | 135 | | | | 140 | | | | |
| Val | Thr | Ser | Trp | Thr | Thr | Gly | Val | Leu | Leu | Ser | Leu | Ile | His | Leu Val |
| 145 | | | | | 150 | | | | 155 | | | | | 160 |
| Leu | Leu | Leu | Pro | Leu | Pro | Phe | Cys | Arg | Pro | Gln | Lys | Ile | Tyr | His Phe |
| | | | 165 | | | | | 170 | | | | | 175 | |
| Phe | Cys | Glu | Ile | Leu | Ala | Val | Leu | Lys | Leu | Ala | Cys | Ala | Asp | Thr His |
| | | 180 | | | | | 185 | | | | | 190 | | |
| Ile | Asn | Glu | Asn | Met | Val | Leu | Ala | Gly | Ala | Ile | Ser | Gly | Leu | Val Gly |
| | 195 | | | | | 200 | | | | | 205 | | | |
| Pro | Leu | Ser | Thr | Ile | Val | Val | Ser | Tyr | Met | Cys | Ile | Leu | Cys | Ala Ile |
| | 210 | | | | 215 | | | | 220 | | | | | |
| Leu | Gln | Ile | Gln | Ser | Arg | Glu | Val | Gln | Arg | Lys | Ala | Phe | Cys | Thr Cys |
| 225 | | | | 230 | | | | | 235 | | | | | 240 |
| Phe | Ser | His | Leu | Cys | Val | Ile | Gly | Leu | Phe | Tyr | Gly | Thr | Ala | Ile Ile |
| | | | 245 | | | | | 250 | | | | | 255 | |
| Met | Tyr | Val | Gly | Pro | Arg | Tyr | Gly | Asn | Pro | Lys | Glu | Gln | Lys | Lys Tyr |
| | 260 | | | | | 265 | | | | | | 270 | | |
| Leu | Leu | Leu | Phe | His | Ser | Leu | Phe | Asn | Pro | Met | Leu | Asn | Pro | Leu Ile |
| | 275 | | | | | 280 | | | | | 285 | | | |
| Cys | Ser | Leu | Arg | Asn | Ser | Glu | Val | Lys | Asn | Thr | Leu | Lys | Arg | Val Leu |
| | 290 | | | | 295 | | | | | 300 | | | | |
| Gly | Val | Glu | Arg | Ala | Leu | | | | | | | | | |
| 305 | | | | | 310 | | | | | | | | | |

<210> 2057

<211> 127

<212> PRT

<213> Homo sapien (4156187-1-27673-28734)

<220>

<221> VARIANT

<222> (1)...(127)

<223> Xaa = Any Amino Acid

<400> 2057

| | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------|
| Met | Gly | Gly | Lys | Gln | Pro | Trp | Val | Thr | Glu | Phe | Ile | Leu | Val | Gly Phe |
| 1 | | | | 5 | | | | 10 | | | | | 15 | |
| Gln | Leu | Cys | Ala | Glu | Met | Glu | Ile | Phe | Leu | Ser | Cys | Ile | Phe | Ser Arg |
| | | 20 | | | | 25 | | | | | | 30 | | |
| Phe | Tyr | Ala | Phe | Ser | Leu | Leu | Arg | Asn | Gly | Met | Asn | Met | Gly | Leu Thr |
| | 35 | | | | | 40 | | | | | 45 | | | |
| Tyr | Leu | Asp | Asp | Arg | Asp | Arg | Leu | His | Thr | Leu | Ile | Tyr | Ile | Phe |
| 50 | | | | | 55 | | | | 60 | | | | | |
| Leu | Ser | His | Leu | Ala | Ile | Asn | Asp | Met | Tyr | Tyr | Ala | Ser | Asn | Asn Val |
| 65 | | | | 70 | | | | 75 | | | | | 80 | |
| Pro | Lys | Arg | Gln | Val | Asn | Gln | Met | Asn | Gln | Lys | Lys | Lys | Tyr | Phe Val |
| | | | 85 | | | 90 | | | | | | 95 | | |
| Leu | Trp | Ile | Lys | Gln | Ile | Phe | Leu | Tyr | Leu | Ala | Phe | Ala | His | Thr Glu |
| | | 100 | | | | 105 | | | | | | 110 | | |
| Cys | Leu | Ile | Xaa | Ala | Met | Met | Ser | Cys | Asn | Arg | Tyr | Val | Ala | Ile |
| | 115 | | | | | 120 | | | | | 125 | | | |

<210> 2058

<211> 312
 <212> PRT
 <213> Homo sapien (4156187-1-8673-10070)

<220>
 <221> VARIANT
 <222> (1)...(312)
 <223> Xaa = Any Amino Acid

<400> 2058
 Met Gly Asp Asn Gln Ser Arg Val Thr Glu Phe Ile Leu Val Gly Phe
 1 5 10 15
 Gln Leu Ser Val Glu Met Glu Val Leu Phe Trp Ile Phe Ser Leu
 20 25 30
 Leu Tyr Leu Phe Ser Leu Leu Ala Asn Gly Met Ile Leu Gly Leu Ile
 35 40 45
 Cys Leu Asp Pro Arg Leu Arg Thr Pro Met Tyr Phe Phe Leu Ser His
 50 55 60
 Leu Ala Val Ile Asp Ile Tyr Tyr Ala Ser Ser Asn Leu Leu Asn Met
 65 70 75 80
 Leu Glu Asn Leu Val Lys His Lys Lys Asn Tyr Pro Phe Ile Ser Cys
 85 90 95
 Ile Met Gln Met Ala Leu Tyr Leu Thr Phe Ala Ala Ala Val Cys Met
 100 105 110
 Ile Leu Val Val Met Ser Tyr Asp Arg Phe Val Ala Ile Cys His Pro
 115 120 125
 Leu His Tyr Thr Val Ile Met Asn Trp Arg Val Cys Thr Val Leu Ala
 130 135 140
 Ile Thr Ser Trp Ala Cys Gly Phe Ser Leu Ala Leu Ile Asn Leu Ile
 145 150 155 160
 Leu Leu Leu Arg Leu Pro Phe Cys Gly Pro Gln Glu Val Asn His Phe
 165 170 175
 Phe Gly Glu Ile Leu Ser Val Leu Lys Leu Ala Cys Ala Asp Thr Trp
 180 185 190
 Ile Asn Glu Ile Phe Val Phe Ala Gly Gly Val Phe Val Leu Val Gly
 195 200 205
 Pro Leu Ser Leu Met Leu Ile Ser Tyr Met Arg Ile Leu Leu Ala Ile
 210 215 220
 Leu Lys Ile Gln Ser Lys Glu Gly Arg Lys Lys Ala Phe Ser Thr Cys
 225 230 235 240
 Ser Ser His Leu Cys Val Val Gly Leu Tyr Phe Gly Met Ala Met Val
 245 250 255
 Val Tyr Leu Val Pro Asp Asn Ser Gln Arg Gln Lys Gln Gln Lys Ile
 260 265 270
 Leu Thr Leu Phe Tyr Ser Leu Phe Asn Pro Leu Leu Asn Pro Leu Ile
 275 280 285
 Tyr Ser Leu Arg Asn Ala Gln Val Lys Gly Ala Leu Tyr Arg Ala Leu
 290 295 300
 Gln Lys Lys Arg Thr Met Xaa Met
 305 310

<210> 2059
 <211> 315
 <212> PRT
 <213> Homo sapien (4160227-1-768-2100)

<220>
 <221> VARIANT
 <222> (1)...(315)
 <223> Xaa = Any Amino Acid

<400> 2059

```

Met Pro Leu Thr Asn Glu Ser His Pro Glu Glu Phe Ile Leu Leu Gly
 1          5          10          15
Phe Ala Asp Arg Pro Trp Leu Glu Leu Pro Leu Phe Thr Ser Leu Leu
          20          25          30
Ile Met Tyr Pro Ile Ala Val Met Gly Asn Ile Thr Ile Ile Leu Met
          35          40          45
Ser Arg Leu Asp Ser Arg Leu His Ser Pro Met Tyr Phe Phe Leu Thr
          50          55          60
Asn Leu Ser Phe Leu Asp Met Cys Tyr Thr Thr Ser Ile Val Pro Gln
65          70          75          80
Met Leu Phe Asn Leu Gly Ser Ser Lys Lys Thr Ile Ser Tyr Met Gly
          85          90          95
Cys Ala Val Gln Leu Tyr Phe Phe His Ile Met Gly Gly Thr Glu Cys
          100          105          110
Leu Leu Leu Ala Ile Met Ser Phe Asp Arg Tyr Val Ala Ile Cys Arg
          115          120          125
Pro Leu His Tyr Thr Leu Ile Met Asn Gln Arg Val Cys Ile His Xaa
          130          135          140
Phe Pro Pro Cys Trp Leu Ile Gly Ile Ile Tyr Ala Val Ser Glu Ala
145          150          155          160
Thr Ala Thr Leu Gln Leu Pro Leu Cys Gly Ser Asn Lys Leu Asp His
          165          170          175
Leu Val Cys Glu Ile Pro Val Leu Ile Lys Ile Ala Cys Gly Glu Lys
          180          185          190
Gly Ser Asn Glu Leu Thr Leu Ser Val Val Cys Ile Phe Met Leu Ala
          195          200          205
Val Pro Leu Cys Leu Ile Leu Ala Ser Tyr Ala Ser Ile Gly Ser Ala
210          215          220
Val Phe Lys Ile Lys Ser Ser Lys Gly Arg Lys Lys Ala Phe Gly Thr
225          230          235          240
Cys Ser Ser His Leu Ile Val Val Phe Leu Phe Tyr Gly Pro Ala Ile
          245          250          255
Ser Met Tyr Leu Gln Pro Pro Ser Ser Ile Ser Arg Asp Gln Pro Lys
          260          265          270
Phe Met Ala Leu Phe Tyr Gly Val Val Thr Pro Ser Leu Asn Pro Phe
          275          280          285
Ile Tyr Thr Leu Arg Asn Lys Asn Val Lys Gly Ala Leu Arg Asn Leu
          290          295          300
Val Arg Ser Ile Phe Ser Phe Lys Xaa Xaa Trp
305          310          315

```

<210> 2060

<211> 311

<212> PRT

<213> Homo sapien (4190944-1-137143-138613)

<400> 2060

```

Met Glu Ile Lys Asn Tyr Ser Ser Ser Thr Ser Gly Phe Ile Leu Leu
 1          5          10          15
Gly Leu Ser Ser Asn Pro Gln Leu Gln Lys Pro Leu Phe Ala Ile Phe
          20          25          30
Leu Ile Met Tyr Leu Leu Ala Ala Val Gly Asn Val Leu Ile Ile Pro
          35          40          45
Ala Ile Tyr Ser Asp Pro Arg Leu His Thr Pro Met Tyr Phe Phe Leu
          50          55          60
Ser Asn Leu Ser Phe Met Asp Ile Cys Phe Thr Val Ile Val Pro
65          70          75          80
Lys Met Leu Val Asn Phe Leu Ser Glu Thr Lys Val Ile Ser Tyr Val
          85          90          95
Gly Cys Leu Ala Gln Met Tyr Phe Phe Met Ala Phe Gly Asn Thr Asp

```



```

      100      105      110
Ser Tyr Leu Leu Ala Ser Met Ala Ile Asp Arg Leu Val Ala Ile Cys
      115      120      125
Asn Pro Leu His Tyr Asp Val Val Met Lys Pro Arg His Cys Leu Leu
      130      135      140
Met Leu Leu Gly Ser Cys Ser Ile Ser His Leu His Ser Leu Phe Arg
      145      150      155      160
Val Leu Leu Met Ser Arg Leu Ser Phe Cys Ala Ser His Ile Ile Lys
      165      170      175
His Phe Phe Cys Asp Thr Gln Pro Val Leu Lys Leu Ser Cys Ser Asp
      180      185      190
Thr Ser Ser Ser Gln Met Val Val Met Thr Glu Thr Leu Ala Val Ile
      195      200      205
Val Thr Pro Phe Leu Cys Ile Ile Phe Ser Tyr Leu Arg Ile Met Val
      210      215      220
Thr Val Leu Arg Ile Pro Ser Ala Ala Gly Lys Trp Lys Ala Phe Ser
      225      230      235      240
Thr Cys Gly Ser His Leu Thr Ala Val Ala Leu Phe Tyr Gly Ser Ile
      245      250      255
Ile Tyr Val Tyr Phe Arg Pro Leu Ser Met Tyr Ser Val Val Arg Asp
      260      265      270
Arg Val Ala Thr Val Met Tyr Thr Val Val Thr Pro Met Leu Asn Pro
      275      280      285
Phe Ile Tyr Ser Leu Arg Asn Lys Asp Met Lys Arg Gly Leu Lys Lys
      290      295      300
Leu Gln Asp Arg Ile Tyr Arg
      305      310

```

<210> 2061

<211> 145

<212> PRT

<213> Homo sapien (4190944-1-141327-142434)

<220>

<221> VARIANT

<222> (1)...(145)

<223> Xaa = Any Amino Acid

<400> 2061

```

Met Thr Thr Pro Phe Asn Ser Ser Leu Ile Met Phe Ser Leu Leu Asp
  1      5      10      15
Ser Ser Met Pro Glu Ile Leu Cys Pro Leu Pro Tyr Phe Phe Leu Gly
      20      25      30
Ser His Ala Thr His Ser Ser Xaa Leu Ser Ser Leu Thr Leu Ile Asn
      35      40      45
Arg Xaa Asn Met Phe Ser Glu Leu Asn Ser Pro Tyr Phe Ser Ile Glu
      50      55      60
Leu Asn Leu Lys Tyr Leu Tyr Ile Cys Asn Lys Leu Thr Leu Glu Lys
      65      70      75      80
Pro Asn Thr Phe Phe Xaa Thr Phe Cys Val Leu Ser Thr Asn Glu Arg
      85      90      95
Pro Met Val Leu Phe Leu Tyr Cys Ile Gln Pro Ala Phe Trp Ile Pro
      100      105      110
Ile Trp Xaa Asn Lys Glu Leu Ala Arg Arg Phe Leu Val Tyr Ser Gln
      115      120      125
Gly Leu Cys Ser Ser Ile Xaa Asp Asn Val Thr Arg Cys Pro Glu Ala
      130      135      140
Cys
      145

```

<210> 2062

<211> 318

<212> PRT

<213> Homo sapien (4190944-1-15386-17112)

<400> 2062

```

Met Met Ser Phe Ala Pro Asn Ala Ser His Ser Pro Val Phe Leu Leu
 1          5          10          15
Leu Gly Phe Ser Arg Ala Asn Ile Ser Tyr Thr Leu Leu Phe Phe Leu
          20          25          30
Phe Leu Ala Ile Tyr Leu Thr Thr Ile Leu Gly Asn Val Thr Leu Val
          35          40          45
Leu Leu Ile Ser Trp Asp Ser Arg Leu His Ser Pro Met Tyr Tyr Leu
          50          55          60
Leu Arg Gly Leu Ser Val Ile Asp Met Gly Leu Ser Thr Val Thr Leu
65          70          75          80
Pro Gln Leu Leu Ala His Leu Val Ser His Tyr Pro Thr Ile Pro Ala
          85          90          95
Ala Arg Cys Leu Ala Gln Phe Phe Phe Phe Tyr Ala Phe Gly Val Thr
          100          105          110
Asp Thr Leu Val Ile Ala Val Met Ala Leu Asp Arg Tyr Val Ala Ile
          115          120          125
Cys Asp Pro Leu His Tyr Ala Leu Val Met Asn His Gln Arg Cys Ala
          130          135          140
Cys Leu Leu Ala Leu Ser Trp Val Val Ser Ile Leu His Thr Met Leu
145          150          155          160
Arg Val Gly Leu Val Leu Pro Leu Cys Trp Thr Gly Asp Ala Gly Gly
          165          170          175
Asn Val Asn Leu Pro His Phe Phe Cys Asp His Arg Pro Leu Leu Arg
          180          185          190
Ala Ser Cys Ser Asp Ile His Ser Asn Glu Leu Ala Ile Phe Phe Glu
          195          200          205
Gly Gly Phe Leu Met Leu Gly Pro Cys Ala Leu Ile Val Leu Ser Tyr
          210          215          220
Val Arg Ile Gly Ala Ala Ile Leu Arg Leu Pro Ser Ala Ala Gly Arg
225          230          235          240
Arg Arg Ala Val Ser Thr Cys Gly Ser His Leu Thr Met Val Gly Phe
          245          250          255
Leu Tyr Gly Thr Ile Ile Cys Val Tyr Phe Gln Pro Pro Phe Gln Asn
          260          265          270
Ser Gln Tyr Gln Asp Met Val Ala Ser Val Met Tyr Thr Ala Ile Thr
          275          280          285
Pro Leu Ala Asn Pro Phe Val Tyr Ser Leu His Asn Lys Asp Val Lys
          290          295          300
Gly Ala Leu Cys Arg Leu Leu Glu Trp Val Lys Val Asp Pro
305          310          315

```

<210> 2063

<211> 317

<212> PRT

<213> Homo sapien (4190944-1-176262-177597)

<400> 2063

```

Met Asn Ser Glu Asn Leu Thr Arg Ala Ala Val Ala Pro Ala Glu Phe
 1          5          10          15
Val Leu Leu Gly Ile Thr Asn Arg Trp Asp Leu Arg Val Ala Leu Phe
          20          25          30
Leu Thr Cys Leu Pro Val Tyr Leu Val Ser Leu Leu Gly Asn Met Gly
          35          40          45
Met Ala Leu Leu Ile Arg Met Asp Ala Arg Leu His Thr Pro Met Tyr
          50          55          60
Phe Phe Leu Ala Asn Leu Ser Leu Leu Asp Ala Cys Tyr Ser Ser Ala

```

```

65          70          75          80
Ile Gly Pro Lys Met Leu Val Asp Leu Leu Leu Pro Arg Ala Thr Ile
      85          90          95
Pro Tyr Thr Ala Cys Ala Leu Gln Met Phe Val Phe Ala Gly Leu Ala
      100          105          110
Asp Thr Glu Cys Cys Leu Leu Ala Ala Met Ala Tyr Asp Arg Tyr Val
      115          120          125
Ala Ile Arg Asn Pro Leu Leu Tyr Thr Thr Ala Met Ser Gln Arg Leu
      130          135          140
Cys Leu Ala Leu Leu Gly Ala Ser Gly Leu Gly Gly Ala Val Ser Ala
      145          150          155          160
Phe Val His Thr Thr Leu Thr Phe Arg Leu Ser Phe Cys Arg Ser Arg
      165          170          175
Lys Ile Asn Ser Phe Phe Cys Asp Ile Pro Pro Leu Leu Ala Ile Ser
      180          185          190
Cys Ser Asp Thr Ser Leu Asn Glu Leu Leu Leu Phe Ala Ile Cys Gly
      195          200          205
Phe Ile Gln Thr Ala Thr Val Leu Ala Ile Thr Val Ser Tyr Gly Phe
      210          215          220
Ile Ala Gly Ala Val Ile His Met Arg Ser Val Glu Gly Ser Arg Arg
      225          230          235          240
Ala Ala Ser Thr Gly Gly Ser His Leu Thr Ala Val Ala Met Met Tyr
      245          250          255
Gly Thr Leu Ile Phe Met Tyr Leu Arg Pro Ser Ser Ser Tyr Ala Leu
      260          265          270
Asp Thr Asp Lys Met Ala Ser Val Phe Tyr Thr Leu Val Ile Pro Ser
      275          280          285
Leu Asn Pro Leu Ile Tyr Ser Leu Arg Asn Lys Glu Val Lys Glu Ala
      290          295          300
Leu Arg Gln Thr Trp Ser Arg Phe His Cys Pro Gly Gln
      305          310          315

```

<210> 2064

<211> 314

<212> PRT

<213> Homo sapien (4190944-1-2029-4183)

<400> 2064

```

Met Asp Asn Ser Asn Trp Thr Ser Val Ser His Phe Val Leu Leu Gly
1          5          10          15
Ile Ser Thr His Pro Glu Glu Gln Ile Pro Leu Phe Leu Val Phe Ser
      20          25          30
Leu Met Tyr Ala Ile Asn Ile Ser Gly Asn Leu Ala Ile Ile Thr Leu
      35          40          45
Ile Leu Ser Ala Pro Arg Leu His Ile Pro Met Tyr Ile Phe Leu Ser
      50          55          60
Asn Leu Ala Leu Thr Asp Ile Cys Phe Thr Ser Thr Thr Val Pro Lys
      65          70          75          80
Met Leu Gln Ile Ile Phe Ser Pro Thr Lys Val Ile Ser Tyr Thr Gly
      85          90          95
Cys Leu Ala Gln Thr Tyr Phe Phe Ile Cys Phe Ala Val Met Glu Asn
      100          105          110
Phe Ile Leu Ala Val Met Ala Tyr Asp Arg Tyr Ile Ala Ile Cys His
      115          120          125
Pro Phe His Tyr Thr Met Ile Leu Thr Arg Met Leu Cys Val Lys Met
      130          135          140
Val Val Met Cys His Ala Leu Ser His Leu His Ala Met Leu His Thr
      145          150          155          160
Phe Leu Ile Gly Gln Leu Ile Phe Cys Ala Asp Asn Arg Ile Pro His
      165          170          175
Phe Phe Cys Asp Leu Tyr Ala Leu Met Lys Ile Ser Cys Thr Ser Thr

```

180 185 190
 Tyr Leu Asn Thr Leu Met Ile His Thr Glu Gly Ala Val Val Ile Ser
 195 200 205
 Gly Ala Leu Ala Phe Ile Thr Ala Ser Tyr Ala Cys Ile Ile Leu Val
 210 215 220
 Val Leu Arg Ile Pro Ser Ala Lys Gly Arg Trp Lys Thr Phe Ser Thr
 225 230 235 240
 Cys Gly Ser His Leu Thr Val Val Ala Ile Phe Tyr Gly Thr Leu Ser
 245 250 255
 Trp Val Tyr Phe Arg Pro Leu Ser Ser Tyr Ser Val Thr Lys Gly Arg
 260 265 270
 Ile Ile Thr Val Val Tyr Thr Val Val Thr Pro Met Leu Asn Pro Phe
 275 280 285
 Ile Tyr Ser Leu Arg Asn Gly Asp Val Lys Gly Gly Phe Met Lys Trp
 290 295 300
 Met Ser Arg Met Gln Thr Phe Phe Phe Arg
 305 310

<210> 2065

<211> 216

<212> PRT

<213> Homo sapien (438406-1-1-648)

<400> 2065

Val Leu Asp Val Gly Cys Ile Thr Val Thr Val Pro Ala Met Leu Gly
 1 5 10 15
 Arg Leu Leu Ser His Lys Ser Thr Ile Ser Tyr Asp Ala Cys Leu Ser
 20 25 30
 Gln Leu Phe Phe His Leu Leu Ala Gly Met Asp Cys Phe Leu Leu
 35 40 45
 Thr Ala Met Ala Tyr Asp Arg Leu Leu Gly Ile Cys Gln Ala Leu Thr
 50 55 60
 Tyr Arg Thr Arg Met Ser Gln Thr Val Gln Arg Met Leu Val Ala Ala
 65 70 75 80
 Ser Trp Ala Cys Ala Phe Thr Asn Ala Leu Thr His Thr Val Gly Met
 85 90 95
 Ser Thr Leu Asn Phe Cys Gly Pro Asn Val Ile Asn His Phe Tyr Cys
 100 105 110
 Asp Leu Pro Gln Leu Phe Lys Leu Ser Cys Ser Ser Thr Gln Leu Asn
 115 120 125
 Glu Leu Leu Leu Phe Ala Val Gly Phe Ile Met Ala Gly Thr Pro Met
 130 135 140
 Ala Leu Ile Val Ile Ser Tyr Ile His Val Ala Ala Val Leu Arg
 145 150 155 160
 Ile Arg Ser Val Glu Gly Arg Lys Lys Ala Phe Ser Thr Cys Gly Ser
 165 170 175
 His Leu Thr Val Val Ala Ile Phe Tyr Gly Ser Gly Ile Phe Asn Tyr
 180 185 190
 Met Arg Leu Gly Ser Thr Lys Leu Ser Asp Lys Asp Lys Ala Val Gly
 195 200 205
 Ile Phe Asn Thr Val Ile Asn Pro
 210 215

<210> 2066

<211> 318

<212> PRT

<213> Homo sapien (4581418-1-11548-14170)

<400> 2066

Met Asp Gln Ser Asn Tyr Ser Ser Leu His Gly Phe Ile Leu Leu Gly
 1 5 10 15

Phe Ser Asn His Pro Lys Met Glu Met Ile Leu Ser Gly Val Val Ala
 20 25 30
 Ile Phe Tyr Leu Ile Thr Leu Val Gly Asn Thr Ala Ile Ile Leu Ala
 35 40 45
 Ser Leu Leu Asp Ser Gln Leu His Thr Pro Met Tyr Phe Phe Leu Arg
 50 55 60
 Asn Leu Ser Phe Leu Asp Leu Cys Phe Thr Thr Ser Ile Ile Pro Gln
 65 70 75 80
 Met Leu Val Asn Leu Trp Gly Pro Asp Lys Thr Ile Ser Tyr Val Gly
 85 90 95
 Cys Ile Ile Gln Leu Tyr Val Tyr Met Trp Leu Gly Ser Val Glu Cys
 100 105 110
 Leu Leu Leu Ala Val Met Ser Tyr Asp Arg Phe Thr Ala Ile Cys Lys
 115 120 125
 Pro Leu His Tyr Phe Val Val Met Asn Pro His Leu Cys Leu Lys Met
 130 135 140
 Ile Ile Met Ile Trp Ser Ile Ser Leu Ala Asn Ser Val Val Leu Cys
 145 150 155 160
 Thr Leu Thr Leu Asn Leu Pro Thr Cys Gly Asn Asn Ile Leu Asp His
 165 170 175
 Phe Leu Cys Glu Leu Pro Ala Leu Val Lys Ile Ala Cys Val Asp Thr
 180 185 190
 Thr Thr Val Glu Met Ser Val Phe Ala Leu Gly Ile Ile Ile Val Leu
 195 200 205
 Thr Pro Leu Ile Leu Ile Leu Ile Ser Tyr Gly Tyr Ile Ala Lys Ala
 210 215 220
 Val Leu Arg Thr Lys Ser Lys Ala Ser Gln Arg Lys Ala Met Asn Thr
 225 230 235 240
 Cys Gly Ser His Leu Thr Val Val Ser Met Phe Tyr Gly Thr Ile Ile
 245 250 255
 Tyr Met Tyr Leu Gln Pro Gly Asn Arg Ala Ser Lys Asp Gln Gly Lys
 260 265 270
 Phe Leu Thr Leu Phe Tyr Thr Val Ile Thr Pro Ser Leu Asn Pro Leu
 275 280 285
 Ile Tyr Thr Leu Arg Asn Lys Asp Met Lys Asp Ala Leu Lys Lys Leu
 290 295 300
 Met Arg Phe His His Lys Ser Thr Lys Ile Lys Arg Asn Cys
 305 310 315

<210> 2067

<211> 257

<212> PRT

<213> Homo sapien (4581418-1-39007-42459)

<220>

<221> VARIANT

<222> (1)...(257)

<223> Xaa = Any Amino Acid

<400> 2067

Phe Ile Leu Trp Gly Phe Phe Asp His Pro Xaa Pro Glu Met Phe Leu
 1 5 10 15
 Phe Ile Met Gly Leu Val Gly Leu Ser Leu His Thr Gly Gly Gln His
 20 25 30
 Leu Asn Tyr Cys Gly Thr Gln Gly Ile Phe Xaa Gly Ser Thr Lys Cys
 35 40 45
 Ile Ile Leu Ala Val Thr Ser Leu Asp Pro Tyr Ile Ala Ile Cys Lys
 50 55 60
 His Leu Arg Tyr Pro Ala Ile Met His Gln Gln Leu Cys Val Leu Leu
 65 70 75 80
 Val Ala Met Ala Trp Leu Ser Ser Leu Ala Asn Ser Leu Gln Ser Ser

| | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|
| | | | | 85 | | | | | 90 | | | | | 95 | | | |
| Leu | Ala | Val | Gln | Leu | Pro | Leu | Gly | Gly | Asn | Lys | Val | Asp | Asp | Phe | Leu | | |
| | | | 100 | | | | | 105 | | | | | 110 | | | | |
| Cys | Glu | Val | Ser | Ala | Met | Ile | Lys | Ile | Ser | Arg | Phe | Asp | Thr | Thr | Phe | | |
| | | | 115 | | | | 120 | | | | | 125 | | | | | |
| Asn | Val | Ser | Met | Leu | Ser | Ile | Val | Arg | Ile | Phe | Xaa | Ser | Leu | Val | Leu | | |
| | | | 130 | | | | 135 | | | | 140 | | | | | | |
| Xaa | Ser | Ile | Ile | Phe | Ala | Tyr | Cys | Gly | Phe | Ile | Val | Ala | Thr | Val | Leu | | |
| 145 | | | | | 150 | | | | | 155 | | | | | 160 | | |
| Arg | Ile | Gln | Ser | Ser | Gly | Gly | Lys | Lys | Glu | Val | Phe | Asn | Thr | Cys | Gly | | |
| | | | | 165 | | | | | 170 | | | | | 175 | | | |
| Ser | His | Ile | Val | Ser | Leu | Leu | Tyr | Gly | Pro | Val | Ile | Ser | Met | Tyr | Val | | |
| | | | 180 | | | | | 185 | | | | | 190 | | | | |
| Gln | Pro | Ser | Ala | Asn | Ser | Gln | Asp | Lys | Asn | Lys | Phe | Met | Ser | Leu | Phe | | |
| | | | 195 | | | | 200 | | | | | 205 | | | | | |
| Tyr | Ser | Leu | Val | Thr | Pro | Met | Leu | Asn | Pro | Phe | Ile | Tyr | Thr | Leu | Ser | | |
| | | | 210 | | | 215 | | | | | 220 | | | | | | |
| Asn | Arg | Asp | Ile | Lys | Gly | Ala | Met | Arg | Arg | Leu | Leu | Val | Phe | Leu | Tyr | | |
| 225 | | | | | 230 | | | | | 235 | | | | | 240 | | |
| His | Gln | Glu | Glu | Asn | Lys | Ser | Asn | Tyr | Cys | Leu | Tyr | Ser | Thr | Phe | Phe | | |
| | | | | 245 | | | | | 250 | | | | | 255 | | | |

Ile

<210> 2068

<211> 309

<212> PRT

<213> Homo sapien (5081803-1-1-930)

<400> 2068

| | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|
| Met | Lys | Lys | Glu | Asn | Gln | Ser | Phe | Asn | Leu | Asp | Phe | Ile | Leu | Leu | Gly | | |
| 1 | | | | 5 | | | | 10 | | | | | 15 | | | | |
| Val | Thr | Ser | Gln | Gln | Glu | Gln | Asn | Asn | Val | Phe | Phe | Val | Ile | Phe | Leu | | |
| | | | 20 | | | | | 25 | | | | 30 | | | | | |
| Cys | Ile | Tyr | Pro | Ile | Thr | Leu | Thr | Gly | Asn | Leu | Leu | Ile | Ile | Leu | Ala | | |
| | | | 35 | | | | 40 | | | | | 45 | | | | | |
| Ile | Cys | Ala | Asp | Ile | Arg | Leu | His | Asn | Pro | Met | Tyr | Phe | Leu | Leu | Ala | | |
| 50 | | | | | 55 | | | | 60 | | | | | | | | |
| Asn | Leu | Ser | Leu | Val | Asp | Ile | Ile | Phe | Ser | Ser | Val | Thr | Ile | Pro | Lys | | |
| 65 | | | | 70 | | | | | 75 | | | | | 80 | | | |
| Val | Leu | Ala | Asn | His | Leu | Leu | Gly | Ser | Lys | Phe | Ile | Ser | Phe | Gly | Gly | | |
| | | | 85 | | | | | 90 | | | | | 95 | | | | |
| Cys | Leu | Met | Gln | Met | Tyr | Phe | Met | Ile | Ala | Leu | Ala | Lys | Ala | Asp | Ser | | |
| | | | 100 | | | | 105 | | | | | 110 | | | | | |
| Tyr | Thr | Leu | Ala | Ala | Met | Ala | Tyr | Asp | Arg | Ala | Val | Ala | Ile | Ser | Cys | | |
| | | | 115 | | | 120 | | | | | | 125 | | | | | |
| Pro | Leu | His | Tyr | Thr | Thr | Ile | Met | Ser | Pro | Arg | Ser | Cys | Ile | Leu | Leu | | |
| | | | 130 | | | 135 | | | | | 140 | | | | | | |
| Ile | Ala | Gly | Ser | Trp | Val | Ile | Gly | Asn | Thr | Ser | Ala | Leu | Pro | His | Thr | | |
| 145 | | | | 150 | | | | | 155 | | | | | 160 | | | |
| Leu | Leu | Thr | Ala | Ser | Leu | Ser | Phe | Cys | Gly | Asn | Gln | Glu | Val | Ala | Asn | | |
| | | | 165 | | | | | 170 | | | | | 175 | | | | |
| Phe | Tyr | Cys | Asp | Ile | Met | Pro | Leu | Leu | Lys | Leu | Ser | Cys | Ser | Asp | Val | | |
| | | | 180 | | | | 185 | | | | | 190 | | | | | |
| His | Phe | Asn | Val | Lys | Met | Met | Tyr | Leu | Gly | Val | Gly | Val | Phe | Ser | Leu | | |
| | | 195 | | | | 200 | | | | | 205 | | | | | | |
| Pro | Leu | Leu | Cys | Ile | Ile | Val | Ser | Tyr | Val | Gln | Val | Phe | Ser | Thr | Val | | |
| | | 210 | | | 215 | | | | | | 220 | | | | | | |
| Phe | Gln | Val | Pro | Ser | Thr | Lys | Ser | Leu | Phe | Lys | Ala | Phe | Cys | Thr | Cys | | |
| 225 | | | | 230 | | | | | 235 | | | | | | 240 | | |
| Gly | Ser | His | Leu | Thr | Val | Val | Phe | Leu | Tyr | Tyr | Gly | Thr | Thr | Met | Gly | | |

```

                245                250                255
Met Tyr Phe Arg Pro Leu Thr Ser Tyr Ser Pro Lys Asp Ala Val Ile
                260                265                270
Thr Val Met Tyr Val Ala Val Thr Pro Ala Leu Asn Pro Phe Ile Tyr
                275                280                285
Ser Leu Arg Asn Trp Asp Met Lys Ala Ala Leu Gln Lys Leu Phe Ser
                290                295                300
Lys Arg Ile Ser Ser
305

```

<210> 2069

<211> 272

<212> PRT

<213> Homo sapien (5262456-1-1-1993)

<400> 2069

```

Met Trp Ile Asn Asn Gln Ser Ser Leu Asp Asp Phe Ile Leu Leu Gly
1          5          10          15
Phe Ser Asp Arg Pro Trp Leu Glu Thr Pro Leu Val Ile Phe Leu Val
20          25          30
Ala Tyr Ile Phe Ser Leu Phe Gly Asn Ile Ser Ile Ile Leu Val Ser
35          40          45
His Leu Asp Pro Gln Leu Asp Ser Pro Met Tyr Phe Phe Val Ser Asn
50          55          60
Leu Ser Phe Leu Asp Leu Cys Tyr Thr Thr Ser Thr Val Pro Gln Met
65          70          75          80
Leu Val Asn Leu Arg Gly Pro Glu Lys Thr Ile Ser Tyr Gly Gly Cys
85          90          95
Val Ala Gln Leu Tyr Ile Phe Leu Ala Leu Gly Ser Thr Glu Cys Ile
100         105         110
Leu Leu Ala Ile Met Ala Phe Asp Arg Tyr Ala Ala Ile Cys Lys Pro
115         120         125
Leu His Tyr Pro Val Ile Met Asn His Arg Arg Cys Ile His Met Ala
130         135         140
Ala Gly Thr Trp Ile Ser Gly Phe Ala Asn Ser Leu Val Gln Ser Thr
145         150         155         160
Leu Thr Val Val Ala Pro Arg Cys Gly Gln Arg Val Leu Asp His Phe
165         170         175
Phe Cys Glu Val Pro Ala Leu Leu Lys Leu Ala Cys Ile Asp Ile Arg
180         185         190
Val Asn Glu Met Glu Leu Asn Val Leu Gly Ala Leu Leu Leu Met
195         200         205
Pro Leu Thr Leu Ile Leu Gly Thr Tyr Val Phe Ile Ala Gln Ala Val
210         215         220
Met Arg Ile Cys Ser Ala Glu Ser Arg Trp Lys Ala Phe Asn Thr Cys
225         230         235         240
Ala Ser His Leu Leu Val Val Ser Leu Phe Tyr Phe Thr Ala Ile Ser
245         250         255
Met Tyr Val Gln Pro Pro Ser Ser Tyr Ser His Asp Arg Gly Lys Ile
260         265         270

```

<210> 2070

<211> 356

<212> PRT

<213> Homo sapien (5262456-1-22068-24947)

<220>

<221> VARIANT

<222> (1)...(356)

<223> Xaa = Any Amino Acid

<400> 2070

```

Met Ile Asn Asp Ser His Phe Ser Gly Phe Ile Leu Leu Gly Phe Thr
 1           5           10           15
Gly Gln Pro Gln Leu Gln Met Met Ile Ser Gly Val Val Phe Phe Phe
           20           25           30
Tyr Thr Ile Ala Phe Met Gly Asn Met Ala Ile Ile Leu Leu Ser Phe
 35           40           45
Leu Asp Asp His Leu Gln Val Pro Met Tyr Phe Phe Leu Arg Asn Leu
 50           55           60
Ala Ile Leu Asp Leu Cys Tyr Thr Thr Asn Ile Val Pro Gln Met Leu
 65           70           75           80
Val Ser Ile Trp Gly Lys Asp Lys Arg Ile Thr Phe Gly Gly Cys Ala
           85           90           95
Phe Gln Leu Phe Ile Asp Val Ala Leu Tyr Ser Val Glu Cys Ile Leu
           100           105           110
Leu Ser Met Met Ser Tyr Asp Arg Leu Asn Ala Ile Cys Lys Pro Leu
           115           120           125
His His Met Thr Ile Met Asn Leu Gln Leu Cys Gln Gly Leu Val Val
           130           135           140
Ile Ser Trp Val Val Gly Val Ile Asn Cys Ile Ile Pro Ser Pro Tyr
 145           150           155           160
Ala Thr Ser Leu Pro Arg Cys Arg Asn His His Leu Asp His Phe Phe
           165           170           175
Val Cys Val Lys Cys Leu Gln Xaa Ser Arg Phe Lys Ile Ala Cys Val
           180           185           190
Asp Thr Thr Ala Met Glu Val Thr Thr Phe Ala Met Cys Leu Ile Ile
           195           200           205
Val Leu Val Pro Leu Leu Leu Ile Leu Val Ser Tyr Gly Phe Ile Ala
           210           215           220
Val Ala Val Leu Lys Ile Lys Ser Ala Ala Gly Arg Gln Lys Ala Phe
 225           230           235           240
Gly Thr Cys Ser Ser His Leu Val Val Val Ser Ile Phe Cys Gly Thr
           245           250           255
Val Thr Tyr Met Tyr Ile Gln Pro Gly Asn Ser Pro Asn Gln Asn Glu
           260           265           270
Gly Lys Leu Leu Ser Ile Phe Tyr Ser Ile Val Thr Pro Ser Leu Asn
           275           280           285
Pro Leu Ile Tyr Thr Val Arg Asn Lys Glu Phe Lys Gly Ala Met Lys
           290           295           300
Arg Leu Thr Gly Lys Glu Lys Asp Cys Met Glu Lys Arg Gly His Xaa
 305           310           315           320
Phe Phe Leu Pro Ala Ile Ser Asn Met Ala Ile Asp Leu Pro Asn Leu
           325           330           335
Lys Cys Arg Gln Phe Ile Leu Xaa Ile Asn Cys Leu His Leu Arg Xaa
           340           345           350
Arg Xaa Tyr Pro
           355

```

<210> 2071

<211> 338

<212> PRT

<213> Homo sapien (5679453-1-2929-5456)

<220>

<221> VARIANT

<222> (1)...(338)

<223> Xaa = Any Amino Acid

<400> 2071

```

Met Ile Leu Pro Ala Ser Phe Ser Xaa Gly Thr Met Glu Thr Ser Ser
 1           5           10           15

```


Val Ser Ser Gly Thr Asp Phe Ile Leu Leu Gly Phe Ser Asp Arg Pro
 20 25 30
 Gln Leu Glu His Ile Ile Ser Val Val Val Phe Ile Ile Tyr Ile Val
 35 40 45
 Thr Leu Val Gly Asn Thr Thr Ile Ile Leu Val Ser Tyr Leu Asp Thr
 50 55 60
 Gln Leu His Thr Phe Met Tyr Phe Phe Leu Ser Asn Leu Ser Phe Leu
 65 70 75 80
 Asp Leu Cys Tyr Thr Thr Ser Ile Ile Pro Gln Met Leu Ala Asn Gln
 85 90 95
 Trp Gly Pro Lys Lys Ser Ile Thr Tyr Gly Gly Cys Val Leu Gln Phe
 100 105 110
 Phe Phe Val Leu Asp Leu Gly Ala Thr Glu Cys Leu Leu Ala Val
 115 120 125
 Met Ala Tyr Asp Arg Tyr Ala Ala Val Cys Gln Pro Leu His Tyr Thr
 130 135 140
 Leu Lys Cys Thr Leu Ser Phe Ala Thr Ala Trp Leu Ser Gly Leu Ala
 145 150 155 160
 Ser Ala Leu Ile Val Cys Ser Leu Thr Leu Lys Leu Pro Arg Cys Gly
 165 170 175
 His Arg Glu Val Asp Asn Phe Phe Cys Glu Met Pro Ala Leu Ile Lys
 180 185 190
 Met Ala Cys Val Tyr Ser Lys Val Ile Glu Ile Val Val Phe Ala Phe
 195 200 205
 Gly Val Val Phe Leu Phe Val Pro Leu Ser Leu Ile Leu Ile Ser Tyr
 210 215 220
 Gly Val Ile Thr Gln Ala Val Met Arg Ile Lys Ser Ala Thr Arg Leu
 225 230 235 240
 Gln Lys Ile Leu Asn Thr Cys Gly Ser His Leu Thr Val Val Ile Leu
 245 250 255
 Phe Tyr Gly Thr Ile Ile Tyr Ile Tyr Met Lys Pro Gln Asn Thr Ile
 260 265 270
 Ser Gln Asp Glu Gly Lys Phe Ser Leu Phe Tyr Thr Ile Ile Thr Pro
 275 280 285
 Ser Leu Asn Leu Pro Ile Tyr Thr Leu Arg Asn Lys Asp Val Lys Ser
 290 295 300
 Ala Leu Lys Arg Ile Leu Trp Met Lys Lys Ser Ser Ala Glu Xaa Met
 305 310 315 320
 Asn Xaa Met Glu Lys Ser Arg Met Xaa Ser Thr Lys Glu Ile Leu Ala
 325 330 335
 Phe Ile

<210> 2072

<211> 308

<212> PRT

<213> Homo sapien (5791525-1-119325-122054)

<400> 2072

Met Ala Met Asp Asn Val Thr Ala Val Phe Gln Phe Leu Leu Ile Gly
 1 5 10 15
 Ile Ser Asn Tyr Pro Gln Trp Arg Asp Thr Phe Phe Thr Leu Val Leu
 20 25 30
 Ile Ile Tyr Leu Ser Thr Leu Leu Gly Asn Gly Phe Met Ile Phe Leu
 35 40 45
 Ile His Phe Asp Pro Asn Leu His Thr Pro Ile Tyr Phe Phe Leu Ser
 50 55 60
 Asn Leu Ser Phe Leu Asp Leu Cys Tyr Gly Thr Ala Ser Met Pro Gln
 65 70 75 80
 Ala Leu Val His Cys Phe Ser Thr His Pro Tyr Leu Ser Tyr Pro Arg
 85 90 95

Cys Leu Ala Gln Thr Ser Val Ser Leu Ala Leu Ala Thr Ala Glu Cys
 100 105 110
 Leu Leu Leu Ala Ala Met Ala Tyr Asp Arg Val Val Ala Ile Ser Asn
 115 120 125
 Pro Leu Arg Tyr Ser Val Val Met Asn Gly Pro Val Cys Val Cys Leu
 130 135 140
 Val Ala Thr Ser Trp Gly Thr Ser Leu Val Leu Thr Ala Met Leu Ile
 145 150 155 160
 Leu Ser Leu Arg Leu His Phe Cys Gly Ala Asn Val Ile Asn His Phe
 165 170 175
 Ala Cys Glu Ile Leu Ser Leu Ile Lys Leu Thr Cys Ser Asp Thr Ser
 180 185 190
 Leu Asn Glu Phe Met Ile Leu Ile Thr Ser Ile Phe Thr Leu Leu Leu
 195 200 205
 Pro Phe Gly Phe Val Leu Leu Ser Tyr Ile Arg Ile Ala Met Ala Ile
 210 215 220
 Ile Arg Ile Arg Ser Leu Gln Gly Arg Leu Lys Ala Phe Thr Thr Cys
 225 230 235 240
 Gly Ser His Leu Thr Val Val Thr Ile Phe Tyr Gly Ser Ala Ile Ser
 245 250 255
 Met Tyr Met Lys Thr Gln Ser Lys Ser Tyr Pro Asp Gln Asp Lys Phe
 260 265 270
 Ile Ser Val Phe Tyr Gly Ala Leu Thr Pro Met Leu Asn Pro Leu Ile
 275 280 285
 Tyr Ser Leu Arg Lys Lys Asp Val Lys Arg Ala Ile Arg Lys Val Met
 290 295 300
 Leu Lys Arg Thr
 305

<210> 2073

<211> 314

<212> PRT

<213> Homo sapien (5791525-1-456-2065)

<220>

<221> VARIANT

<222> (1)...(314)

<223> Xaa = Any Amino Acid

<400> 2073

Met His Gln Gly Asn Xaa Thr Thr Val Ser Lys Phe Phe Leu Leu Gly
 1 5 10 15
 Ile Thr Thr Lys Pro Lys Glu Gln Gln Phe Ile Phe Met Leu Phe Leu
 20 25 30
 Cys Thr Tyr Leu Val Thr Met Val Arg Asn Leu Leu Ile Ile Leu Ala
 35 40 45
 Val Val Ser Asp Ala His Leu His Gly Pro Ile Tyr Phe Phe Leu Ala
 50 55 60
 Asn Leu Ser Phe Thr Asn Val Cys Ile Thr Thr Thr Val Pro Lys
 65 70 75 80
 Ile Leu Ala Asp Ile Gln Ser Gln Asn Ser Thr Ile Ser Phe Glu Gly
 85 90 95
 Cys Pro Ala Gln Met Xaa Phe Xaa Ile Phe Leu Val Asp Leu Asp Asn
 100 105 110
 Phe Leu Leu Val Asp Met Ala Tyr Asn Xaa Tyr Ile Ala Ile Cys His
 115 120 125
 Pro Leu His Tyr Thr Val Val Val Leu Ser Pro Lys Asn Cys Ala Leu
 130 135 140
 Leu Val Val Thr Pro Trp Val Ile Ser Asn Leu Val Ser Ile Leu His
 145 150 155 160
 Leu Ser Leu Leu Ser His Leu Thr Phe Cys Ile Ser His Ile Phe Tyr

```

                165                170                175
Asp Leu Glu Pro Ile Leu Gly Leu Ala Cys Ser Asp Thr Gln Ile Asn
                180                185                190
Asn Leu Ile Ile Thr Ala Ile Gly Glu Val Val Ile Phe Ile Pro Phe
                195                200                205
Thr Cys His Ile Leu Val Ser Tyr Gly Leu Ile Gly Ser Thr Met Leu
                210                215                220
Gly Val Pro Ser Ala Lys Gly Lys Xaa Lys Thr Phe Ser Thr Cys Gly
225                230                235                240
Ser His Leu Ser Val Val Pro Gln Val Phe Tyr Gly Phe Ile Ile Gly
                245                250                255
Val Tyr Phe Leu Ser Phe Phe Ala Tyr Ser Ala Glu Arg Asp Glu Val
                260                265                270
Ala Ala Ile Met Tyr Thr Thr Val Thr His Leu Ile Lys Ser Phe Ile
275                280                285
Cys Ser Leu Arg Asn Glu Asp Met Lys Gly Ala Leu Arg Arg Pro Leu
290                295                300
Ser Arg Gln Gly Phe Ser Gly Val Val Ser
305                310

```

<210> 2074
 <211> 138
 <212> PRT
 <213> Homo sapien (5823349-1-32238-32756)

<220>
 <221> VARIANT
 <222> (1)...(138)
 <223> Xaa = Any Amino Acid

```

<400> 2074
Leu Met Leu Leu Asp Leu Leu Ser Asp Ala Glu Val His Ala Val Ser
 1                5                10                15
Ser Ser His Cys Ser Leu His Leu Thr Lys Glu Ile Phe Ser Ile Val
                20                25                30
Ser Asn Gln Ala Leu Ser Pro Glu Ser Thr Leu Gly Leu His Met His
                35                40                45
Leu Cys Ala Phe Leu Thr Leu Phe Pro Leu Pro Arg Thr Pro Leu Pro
 50                55                60
Ser Phe Leu Ile His Arg Asn Leu Ile His Leu Ser Ser His Ala Gln
65                70                75                80
Gln Leu Ser Phe Pro Xaa Leu Leu Xaa Lys Tyr Ser Leu Phe Asn Leu
                85                90                95
Tyr Val Ile Leu Ser Arg Ile Leu Phe Pro Leu His Pro Leu Val Tyr
                100                105                110
Glu Gln Phe Lys Ser Gly Cys Tyr Gly Xaa Phe Ile Ile Lys Ile Leu
                115                120                125
Asn Phe Cys Leu Leu Xaa Val Met Asn Leu
130                135

```

<210> 2075
 <211> 162
 <212> PRT
 <213> Homo sapien (5931513-1-1-2929)

```

<400> 2075
Met Asn Val Ser Glu Pro Asn Ser Ser Phe Ala Phe Val Asn Glu Phe
 1                5                10                15
Ile Leu Gln Gly Phe Ser Cys Glu Trp Thr Ile Gln Ile Phe Leu Phe
                20                25                30
Ser Leu Phe Thr Thr Thr Tyr Ala Leu Thr Ile Thr Gly Asn Gly Ala

```

```
<210> 2076
<211> 318
<212> PRT
<213> Homo sapien (6087993-15-1-2211)
```

1216

290 295 300
 Glu Ile Lys Gln Gly Ile Gln Lys Leu Leu Gln Arg Gly Arg
 305 310 315

<210> 2077

<211> 314

<212> PRT

<213> Homo sapien (6087993-21-1-3660)

<400> 2077

Met Leu Leu Ser Asn Ser Ser Trp Arg Leu Ser Gln Pro Ser Phe Leu
 1 5 10 15
 Leu Val Gly Ile Pro Gly Leu Glu Glu Ser Gln His Trp Ile Ala Leu
 20 25 30
 Pro Leu Gly Ile Leu Tyr Leu Leu Ala Leu Val Gly Asn Val Thr Ile
 35 40 45
 Leu Phe Ile Ile Trp Met Asp Pro Ser Leu His Gln Ser Met Tyr Leu
 50 55 60
 Phe Leu Ser Met Leu Ala Ala Ile Asp Leu Val Leu Ala Ser Ser Thr
 65 70 75 80
 Ala Pro Lys Ala Leu Ala Val Leu Leu Val His Ala His Glu Ile Gly
 85 90 95
 Tyr Ile Val Cys Leu Ile Gln Met Phe Phe Ile His Ala Phe Ser Ser
 100 105 110
 Met Glu Ser Gly Val Leu Val Ala Met Ala Leu Asp Arg Tyr Val Ala
 115 120 125
 Ile Cys His Pro Leu His His Ser Thr Ile Leu His Pro Gly Val Ile
 130 135 140
 Gly Arg Ile Gly Met Val Val Leu Val Arg Gly Leu Leu Leu Ile
 145 150 155 160
 Pro Phe Pro Ile Leu Leu Gly Thr Leu Ile Phe Cys Gln Ala Thr Ile
 165 170 175
 Ile Gly His Ala Tyr Cys Glu His Met Ala Val Val Lys Leu Ala Cys
 180 185 190
 Ser Glu Thr Thr Val Asn Arg Ala Tyr Gly Leu Thr Met Ala Leu Leu
 195 200 205
 Val Ile Gly Leu Asp Val Leu Ala Ile Gly Val Ser Tyr Ala His Ile
 210 215 220
 Leu Gln Ala Val Leu Lys Val Pro Gly Ser Glu Ala Arg Leu Lys Ala
 225 230 235 240
 Phe Ser Thr Cys Gly Ser His Ile Cys Val Ile Leu Val Phe Tyr Val
 245 250 255
 Pro Gly Ile Phe Ser Phe Leu Thr His Arg Phe Gly His His Val Pro
 260 265 270
 His His Val His Val Leu Leu Ala Thr Arg Tyr Leu Leu Met Pro Pro
 275 280 285
 Ala Leu Asn Pro Leu Val Tyr Gly Val Lys Thr Gln Gln Ile Arg Gln
 290 295 300
 Arg Val Leu Arg Val Phe Thr Gln Lys Asp
 305 310

<210> 2078

<211> 327

<212> PRT

<213> Homo sapien (6087993-34-2575-6318)

<220>

<221> VARIANT

<222> (1)...(327)

<223> Xaa = Any Amino Acid

<400> 2078

```

Phe Phe Ser Asn Asn Ser Val Leu Phe Pro His Thr Phe Phe Leu Ala
 1           5           10           15
Gly Ile Pro Gly Leu Thr Ala Thr His Ile Trp Ile Leu Leu Pro Phe
          20           25           30
Cys Phe Met Phe Phe Leu Ser Leu Thr Gly Asn Gly Val Leu Leu Phe
          35           40           45
Leu Ile Arg Thr Glu Cys Ser Leu Arg Gln Pro Met Phe Leu Phe Leu
          50           55           60
Ala Met Leu Ser Phe Val Asp Leu Val Leu Ser Leu Ser Thr Leu Pro
65           70           75           80
Lys Met Leu Ala Ile Phe Trp Phe Gly Ala Thr Ala Ile Ser Ser His
          85           90           95
Ser Cys Leu Ser Gln Met Phe Phe Ile His Ala Phe Ser Ala Met Glu
          100          105          110
Ser Gly Val Leu Val Ala Met Ala Leu Asp Arg Ser Val Ala Ile Cys
          115          120          125
Asn Pro Leu Arg Tyr Ala Thr Ile Leu Pro Pro Val Val Val Ala Lys
          130          135          140
Ile Gly Gly Leu Val Val Leu Xaa Gly Val Gly Leu Thr Ile Ser Phe
145           150           155           160
Pro Ser Leu Ala His Arg Leu His Tyr His Gly Ser His Met Ile Ala
          165          170          175
Tyr Thr Phe Cys Glu His Met Ala Val Val Lys Leu Ala Cys Glu Ala
          180          185          190
Thr Thr Val Asp Asn Leu Tyr Ala Phe Val Val Ala Ile Phe Leu Gly
          195          200          205
Gly Gly Asp Val Val Cys Ile Ala Tyr Ser Tyr Gly Leu Ile Val Arg
          210          215          220
Thr Val Met His Phe Pro Ser Pro Glu Glu Arg Ala Lys Ala Gly Ser
225           230           235           240
Thr Cys Thr Ala His Val Cys Val Ile Leu Phe Phe Tyr Gly Leu Gly
          245          250          255
Phe Leu Ser Val Val Met Gln Arg Phe Gly Ala Pro Thr Ala Ser Thr
          260          265          270
Ala Lys Val Ile Leu Ala Asn Leu Tyr Leu Leu Phe Pro Pro Ala Leu
          275          280          285
Asp Pro Ile Val Tyr Gly Met Glu Thr Lys Gln Ile Xaa Glu Arg Leu
290           295           300
Leu Met Ile Leu Ser Pro Lys Gln Ile Glu Leu Thr Xaa Val Xaa Leu
305           310          315          320
Ser Pro Ala Gly Leu Gln Gly
          325

```

<210> 2079

<211> 135

<212> PRT

<213> Homo sapien (6087993-36-10518-12399)

<220>

<221> VARIANT

<222> (1)...(135)

<223> Xaa = Any Amino Acid

<400> 2079

```

Lys Asp Leu Xaa Arg Arg Ser Asn Ile Asn Phe Arg Ile Glu Arg Leu
 1           5           10           15
Tyr Phe Phe Ile Xaa Gly Trp Glu Met Lys Met Gly Leu Xaa Asn Xaa
          20           25           30
Leu Leu Met Phe Cys Glu Ser Phe Xaa Xaa Xaa Lys Thr Val Leu Arg
          35           40           45

```

Ile Lys Gly Glu Gly Asp Met Ala Lys Ala Leu Gly Thr Cys Gly Ser
 50 55 60
 His Phe Ile Leu Ile Leu Phe Phe Thr Thr Val Leu Leu Val Leu Val
 65 70 75 80
 Ile Thr Asn Leu Ala Arg Lys Arg Ile Pro Pro Asp Val Pro Ile Leu
 85 90 95
 Leu Asn Ile Leu His His Leu Ile Pro Pro Ala Leu Asn Pro Ile Val
 100 105 110
 Tyr Gly Val Arg Thr Lys Glu Ile Lys Gln Gly Ile Gln Asn Leu Leu
 115 120 125
 Arg Arg Leu Xaa Lys Ile Lys
 130 135

<210> 2080

<211> 141

<212> PRT

<213> Homo sapien (6094601-37-1-3120)

<220>

<221> VARIANT

<222> (1)...(141)

<223> Xaa = Any Amino Acid

<400> 2080

Met Leu Thr Cys Phe Trp Lys His Leu Xaa Tyr Leu Pro Leu Xaa Phe
 1 5 10 15
 Val Asp Phe Val Leu Ser Lys Lys Lys Pro Ser Asn Xaa Ser Val Ser
 20 25 30
 Ile Asn Val Phe Leu Leu Leu Thr Tyr Xaa Xaa Ser Phe Ala Leu Val
 35 40 45
 Tyr Leu Cys Phe Asp Lys Leu Phe Trp Ile Cys Asn Pro Leu Ser Gly
 50 55 60
 Leu Met Thr Leu Arg Arg Thr Arg Cys Ala Gly Ile Leu Gly Ala Cys
 65 70 75 80
 Trp Thr Tyr Ala Phe Thr Ser Thr Ile Arg Xaa Val Phe Phe Phe Phe
 85 90 95
 Asn Leu Lys Asp Lys Leu Phe Phe Gln Met Ser Asn Phe Leu Ser Leu
 100 105 110
 Xaa Glu Leu Met Xaa Gly Pro Phe Phe Leu Glu Asn Ser His Met Tyr
 115 120 125
 Ser Tyr Thr His Lys Leu Cys Leu Leu Phe Xaa Gly Val
 130 135 140

<210> 2081

<211> 315

<212> PRT

<213> Homo sapien (6249440-1-23422-29767)

<220>

<221> VARIANT

<222> (1)...(315)

<223> Xaa = Any Amino Acid

<400> 2081

Met Gly Gly Leu Lys Arg Asp Asn Ala Ser Glu Met Thr Glu Leu Ile
 1 5 10 15
 Leu Val Gly Phe Ala Gln His Pro Glu Ile Gln Thr Ala Phe Phe Leu
 20 25 30
 Glu Leu Leu Phe Phe Tyr Xaa Ser Gln Leu Phe Glu Asn Ile Leu Ile
 35 40 45
 Val Ala Val Val Arg Xaa Asp Ser Arg Leu His Thr Pro Met Gly Phe

| | | | | |
|---|---|-----|-----|----|
| 50 | | 55 | | 60 |
| Phe Phe Leu Ser Thr | Leu Ser Ser Leu Glu Met Cys Tyr Ser Ile Ser | | | |
| 65 | 70 | 75 | 80 | |
| Trp Glu Leu Xaa Val | Leu Ala Gln Cys Ile Lys Asp Phe Pro Thr Ile | | | |
| | 85 | 90 | 95 | |
| Ser Tyr Asn Ser Cys Ser Val Gln Met Ile Thr His Leu Phe Leu Gly | | | | |
| | 100 | 105 | 110 | |
| Thr Ala Gln Cys Leu Leu Leu Ala Gly Met Ala Tyr Asn Arg Phe Val | | | | |
| | 115 | 120 | 125 | |
| Glu Ile Ser Tyr Leu Leu His Tyr Thr Ile Ile Met Ser Asn Arg Val | | | | |
| | 130 | 135 | 140 | |
| Cys Ile Gln Leu Ala Leu Gly Ile Trp Thr His Ala Phe Leu Val Ala | | | | |
| 145 | 150 | 155 | 160 | |
| Val Thr Leu Ile Ile Ala Ile Pro Ala Ser Tyr Tyr Gly His Asn Val | | | | |
| | 165 | 170 | 175 | |
| Ile Asn His Phe Thr Cys Glu Ile Gln Ala Leu Leu Lys Leu Val Cys | | | | |
| | 180 | 185 | 190 | |
| Ser Asp Thr Leu Val Ser Leu Ile Gln Gly Leu Val Ile Ser Val Phe | | | | |
| | 195 | 200 | 205 | |
| Thr Leu Pro Leu Pro Phe Thr Phe Ile Leu Ile Ser Xaa Phe Cys Ile | | | | |
| | 210 | 215 | 220 | |
| Phe Val Arg Ala Val Glu Ala Arg Arg Glu Ala Phe Ser Thr Cys Gly | | | | |
| 225 | 230 | 235 | 240 | |
| Ser His Leu Thr Gly Val Thr Ile Phe Tyr Gly Ala Ala Ile Cys Met | | | | |
| | 245 | 250 | 255 | |
| Tyr Leu Lys Pro Gln Ser Lys Gly Thr Gln Glu Glu Asp Lys Val Val | | | | |
| | 260 | 265 | 270 | |
| Ser Lys Leu Tyr Gly Ala Val Thr Pro Met Leu Asn Pro Pro Ile Tyr | | | | |
| | 275 | 280 | 285 | |
| Ile Gln Arg Asn Lys Asp Ile Lys Gly Ala Leu Arg Lys Leu Ala Lys | | | | |
| | 290 | 295 | 300 | |
| Gly Asn Glu Lys Ser Xaa Gln Phe Ser Leu Asn | | | | |
| 305 | 310 | 315 | | |

<210> 2082

<211> 295

<212> PRT

<213> Homo sapien (6739493-1-1-1041)

<400> 2082

| | |
|---|-----|
| Met Tyr Ser Phe Met Ala Gly Ser Ile Phe Ile Thr Ile Phe Gly Asn | |
| 1 | 5 |
| Leu Ala Met Ile Ile Ser Ile Ser Tyr Phe Lys Gln Leu His Thr Pro | |
| | 20 |
| Thr Asn Phe Leu Ile Leu Ser Met Ala Ile Thr Asp Phe Leu Leu Gly | |
| | 35 |
| Phe Thr Ile Met Pro Tyr Ser Met Ile Arg Ser Val Glu Asn Cys Trp | |
| | 50 |
| Tyr Phe Gly Leu Thr Phe Cys Lys Ile Tyr Tyr Ser Phe Asp Leu Met | |
| 65 | 70 |
| Leu Ser Ile Thr Ser Ile Phe His Leu Cys Ser Val Ala Ile Asp Arg | |
| | 85 |
| Phe Tyr Ala Ile Cys Tyr Pro Leu Leu Tyr Ser Thr Lys Ile Thr Ile | |
| | 100 |
| Pro Val Ile Lys Arg Leu Leu Leu Leu Cys Trp Ser Val Pro Gly Ala | |
| | 115 |
| Phe Ala Phe Gly Ala Val Phe Ser Glu Ala Tyr Ala Asp Gly Ile Glu | |
| | 130 |
| Gly Tyr Asp Ile Leu Val Ala Cys Ser Ser Ser Cys Pro Val Met Phe | |
| 145 | 150 |
| Asn Lys Leu Trp Gly Thr Thr Leu Phe Met Ala Gly Phe Phe Thr Pro | |

| | | | | | | | | | | | | | | | | |
|------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| <400> 2083 | | | | | | | | | | | | | | | | |
| Leu | Ser | Ser | Met | Cys | Leu | Thr | Ile | Val | Met | His | Cys | Glu | Phe | Phe | Leu | |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | | |
| Met | Asp | Leu | Thr | Asp | Asp | Pro | Gln | Leu | His | Pro | Thr | Phe | Ser | Ala | Leu | |
| | | | 20 | | | | | 25 | | | | | 30 | | | |
| Phe | Leu | Pro | Ile | Tyr | Val | Val | Met | Val | Met | Ala | Asn | Leu | Gly | Leu | Leu | |
| | | 35 | | | | | 40 | | | | | 45 | | | | |
| Ala | Phe | Ile | Val | Val | Ser | Pro | Gln | Phe | Leu | Thr | Pro | Met | Tyr | Phe | Phe | |
| | 50 | | | | | 55 | | | | | 60 | | | | | |
| Leu | Ser | Asn | Trp | Ser | Ser | Val | Asp | Phe | Cys | Tyr | Ser | Ser | Val | Thr | Val | |
| 65 | | | | 70 | | | | | | 75 | | | | | 80 | |
| Pro | Lys | Ile | Ser | Met | Gly | Phe | Phe | Ser | Asp | Cys | Gln | Val | Phe | Ser | Phe | |
| | | | | 85 | | | | | 90 | | | | | 95 | | |
| Ser | Gly | Cys | Met | Ala | Gln | Leu | Ser | Cys | Phe | Xaa | Ile | Phe | Ala | Asp | Thr | |
| | | | 100 | | | | | 105 | | | | | 110 | | | |
| Glu | Phe | Phe | Leu | Leu | Ala | Ser | Met | Val | Tyr | Tyr | Arg | Xaa | Glu | Ala | Val | |
| | | 115 | | | | | 120 | | | | | 125 | | | | |
| Cys | Asn | Pro | Leu | Leu | Tyr | His | Ile | Thr | Met | Ser | Pro | Lys | Leu | Cys | Leu | |
| | 130 | | | | | 135 | | | | | 140 | | | | | |
| Gln | Leu | Val | Ala | Thr | Ser | Met | Asn | Met | Val | Leu | Pro | Ser | Ser | Thr | Ile | |
| 145 | | | | 150 | | | | | 155 | | | | | | 160 | |
| Phe | His | Leu | Ile | Phe | Cys | Lys | Ser | Arg | Ala | Ile | Ile | His | Xaa | Phe | Cys | |
| | | | | 165 | | | | | 170 | | | | | 175 | | |
| Tyr | Phe | Ser | Pro | Pro | Pro | Arg | Leu | Xaa | Lys | Leu | Ser | Cys | Ser | Asp | Met | |
| | | | 180 | | | | | 185 | | | | | 190 | | | |
| Gln | Gly | Leu | Gln | Leu | Leu | Thr | Phe | Ala | Ser | Ser | Ser | Phe | Asn | Val | Ser | |
| | | 195 | | | | | 200 | | | | | 205 | | | | |
| Val | Ser | Arg | Thr | Ile | Phe | Leu | Val | Ser | Tyr | Leu | Ile | Met | Arg | Met | Pro | |
| | 210 | | | | | 215 | | | | | 220 | | | | | |
| Ser | Val | Xaa | Gly | Lys | His | Cys | Ala | Ser | His | Leu | Thr | Ala | Val | Ser | Leu | |
| 225 | | | | 230 | | | | | | 235 | | | | | 240 | |
| Cys | Tyr | Gly | Thr | Thr | Val | Phe | Leu | His | Leu | His | Leu | Ser | Leu | Lys | Cys | |
| | | | | 245 | | | | | 250 | | | | | 255 | | |

Ser Pro Asp Arg Asp Met Leu Val Ser Val Leu His Ser Ala Ile Leu
 260 265 270
 Met Leu Asn Pro Met Val Gln Ser Leu Arg Asn Lys Asp Val Lys Lys
 275 280 285
 Thr Phe Gly Thr Ser Ser Xaa Arg Phe Thr Ile Pro Leu Leu
 290 295 300

<210> 2084
 <211> 274
 <212> PRT
 <213> Homo sapien (6911343-1-22015-25112)

<220>
 <221> VARIANT
 <222> (1)...(274)
 <223> Xaa = Any Amino Acid

<400> 2084
 Glu Arg Asn Pro Ser Val Ala Glu Lys Cys Leu Gln Gly Met Thr Asp
 1 5 10 15
 Ser Ser His His Tyr Leu Xaa Leu Arg Leu Pro Leu Phe Arg Leu Leu
 20 25 30
 Ile Leu Leu Tyr Thr Ile Ile Thr Ile Gly Asn Leu Gly Thr Val Ile
 35 40 45
 Leu Ile Gly Ile Ser Leu Gly Leu Tyr Val Cys Pro Pro Arg Phe Leu
 50 55 60
 Leu Phe Thr Phe Ser Met Leu Arg Val Leu Val Lys Cys Phe Xaa Ser
 65 70 75 80
 Thr Val Leu Pro Phe Ser Phe Trp Ser Leu Glu Ala Gln Ile Asn Phe
 85 90 95
 Phe Ser Ile Leu Cys Ile Thr Glu Phe Phe Pro Leu Ala Thr Met Ala
 100 105 110
 Tyr Asp Asp Asn Val Ala Thr Cys Glu Pro Leu Phe His Pro Phe Thr
 115 120 125
 Ser Leu Arg Leu Asn Ser Ala Phe Val Xaa Glu Lys Leu Tyr Leu Arg
 130 135 140
 Ala Phe Thr Ser Ala Leu Pro Ser Thr Leu Pro Phe His Leu Pro Phe
 145 150 155 160
 Phe Asn Ser His Leu Cys Ser Leu Gln Xaa His Tyr Phe Leu Gly Gln
 165 170 175
 Val Val Leu Xaa Asn Met Thr Pro Asn Phe Lys Leu Pro Asp Phe Ser
 180 185 190
 Asn Ser Asn Val Asn Leu Val Ser Leu Cys Cys Pro Thr Ile Cys Cys
 195 200 205
 Tyr Pro Ile Ile Leu Arg Ser Leu Ser Ser His Asn Xaa Ser Glu Asn
 210 215 220
 Lys Leu Leu Ile Ile Ile Phe Phe Gln Asn Ser Thr Xaa Leu Leu Phe
 225 230 235 240
 Ile Phe Cys Ser Asp Glu Asn Val Tyr Xaa Thr Ile Xaa Gly Ile Thr
 245 250 255
 Asp Xaa Phe Ile Lys Ser Lys His Cys Val His Ile Pro Leu Met Gln
 260 265 270
 Ile Leu

<210> 2085
 <211> 323
 <212> PRT
 <213> Homo sapien (6911343-1-65670-69060)

<220>

<221> VARIANT
 <222> (1)...(323)
 <223> Xaa = Any Amino Acid

<400> 2085

```

Val Glu Asn Ser Pro Met Val Thr Asp Phe Ile Phe Leu Gly Met Thr
1      5      10      15
Asp Asn Ser Gln Leu Glu Val Leu Leu Phe Gly Val Phe Leu Ile Ala
20      25      30
Tyr Ile Ile Thr Val Leu Glu Asn Leu Gly Leu Val Val Leu Ile Arg
35      40      45
Val Ser Ser Arg Leu His Thr Pro Met Tyr Phe Phe Leu Ser Asn Gln
50      55      60
Ser Phe Leu Asp Val Cys Phe Ser Ser Ile Thr Ile Pro Gln Asn Leu
65      70      75      80
Ala His Leu Phe Ser Lys Leu Gln Tyr Val Ser Phe Leu Phe Pro Tyr
85      90      95
Thr Xaa Met Ser Leu Phe Val Ile Phe Ala Ser Ala Glu Cys Asn Phe
100     105     110
Leu Asn Leu Met Ala Tyr Asp Arg Phe Thr Ala Ile Cys His Pro Leu
115     120     125
Phe Tyr His Ile Thr Met Ser Arg Gly His Tyr Leu Phe Leu Val Ala
130     135     140
Gly Cys Tyr Leu Gly Gly Leu Val Lys Met Val Thr Val Thr Thr Ser
145     150     155     160
Ile Thr Gln Leu Ser Leu Cys Gln Pro Cys Val Leu Pro Ala Phe Phe
165     170     175
Cys Asp Ile Pro Ser Leu Leu Val Leu Val Cys Ser Asp Pro Trp Ile
180     185     190
Thr Ser Ser Ile Leu Val Val Gly Cys Gly Gly Phe Thr Leu Val Thr
195     200     205
Ser Val Val Val Ile Leu Val Ser Tyr Met Ser Ser Leu Met Thr Ile
210     215     220
Leu Gly Ile Pro Leu Ala Ser Gly Lys Gln Arg Ala Phe Ser Thr Cys
225     230     235     240
Ala Ser His Leu Thr Ala Val Ser Leu Tyr Tyr Glu Thr Thr Met Tyr
245     250     255
Thr Tyr Leu Pro Ala Ser Arg His Gly Ser Gly Ala Gly Asn Gln Ile
260     265     270
Val Ser Val Phe Tyr Thr Met Val Ile Pro Met Leu Asn Pro Leu Ile
275     280     285
Tyr Ser Leu Arg Asn Glu Glu Val Lys Val Ala Leu Xaa Lys Thr Leu
290     295     300
Arg His Ser Pro Xaa Ser Ser Leu Ser Val Ser Lys Met Gln Asn Ile
305     310     315     320
Leu Xaa Arg

```

<210> 2086

<211> 318

<212> PRT

<213> Homo sapien (7024122-10-14004-16338)

<220>

<221> VARIANT

<222> (1)...(318)

<223> Xaa = Any Amino Acid

<400> 2086

```

Met Lys Ser Glu Leu Asn Arg Asn Tyr Ser Glu Val Thr Glu Phe Ile
1      5      10      15

```

Leu Leu Gly Phe Arg Thr Ser Pro Glu Ala Gln Ile Leu Leu Phe Phe
 20 25 30
 Leu Phe Leu Leu Ile Tyr Met Val Ile Val Leu Arg Asn Leu Ser Met
 35 40 45
 Leu Val Val Ile Glu Ile Asp Ser Arg Leu His Thr Pro Val Tyr Phe
 50 55 60
 Phe Leu Arg Asn Leu Ser Tyr Leu Asp Leu Arg Tyr Ser Thr Val Ile
 65 70 75 80
 Ala Pro Lys Leu Thr Thr Leu Phe Ser Lys Glu Lys Lys Ile Ser Tyr
 85 90 95
 Asn Gly Xaa Ala Thr Gln Leu Phe Phe Phe Ala Leu Phe Val Gly Thr
 100 105 110
 Glu Gly Phe Phe Leu Asp Met Met Ala Tyr Asp Arg Phe Ser Ala Ile
 115 120 125
 Cys Ser Pro Phe Phe Tyr Thr Val Cys Met Ser Gln Gln Ala Cys Val
 130 135 140
 Cys Leu Val Val Gly Ser Ser Ile Cys Gly Cys Ile Asn Ser Met Ile
 145 150 155 160
 Gln Thr Gly Phe Thr Phe Ser Leu His Phe Cys Gly Glu Asn Arg Leu
 165 170 175
 Glu His Phe Phe Cys Asp Val Ser Val Met Ile Lys Ile Ser Cys Ile
 180 185 190
 Asp Ile Leu Val Asn Glu Val Val Leu Phe Ile Leu Ser Ala Leu Ile
 195 200 205
 Thr Thr Thr Thr Thr Val Ile Leu Ala Ser Tyr Val His Ile Leu Ser
 210 215 220
 Thr Val Leu Lys Ile Leu Ser Thr His Gly Arg Arg Lys Thr Phe Ser
 225 230 235 240
 Thr Cys Ser Ser His Ile Thr Val Val Ser Leu Phe Tyr Gly Thr Val
 245 250 255
 Phe Phe Met Tyr Ala Gln Pro Gly Ala Ile Pro Lys Ser Lys Val Ile
 260 265 270
 Val Val Phe Xaa Thr Leu Val Ile Pro Met Leu Asn Thr Leu Ile Tyr
 275 280 285
 Ser Leu Arg Asn Lys Val Gln Asn Ala Leu Lys Arg Tyr Ile Asp Lys
 290 295 300
 Lys Asn Ile Phe His Trp Pro Leu Ala Ile Tyr Lys Thr Ile
 305 310 315

<210> 2087

<211> 318

<212> PRT

<213> Homo sapien (7024122-5-2648-5354)

<400> 2087

Met Phe Ser Ser Glu Pro Thr Ile Asp Gly Asn Gln Ser Leu Cys Ala
 1 5 10 15
 Lys Phe Thr Phe Val Ala Phe Ser Ser Ile Glu Glu Leu Gln Leu Val
 20 25 30
 Leu Phe Ile Val Phe Leu Ile Ile Tyr Leu Cys Thr Ile Gly Gly Asn
 35 40 45
 Ile Ile Ile Ile Ser Leu Ile Trp Ile Thr Pro Ala Leu His Thr Pro
 50 55 60
 Met Tyr Phe Phe Leu Val Asn Leu Ser Phe Leu Glu Met Cys Tyr Thr
 65 70 75 80
 Thr Ser Val Val Pro Leu Leu Val His Leu Leu Val Glu Thr Lys Thr
 85 90 95
 Ile Ser Val Gly Cys Ala Thr Gln Met Tyr Ile Phe Ala Ile Leu
 100 105 110
 Gly Leu Thr Glu Cys Cys Leu Leu Ala Ala Met Ala Tyr Asp Arg Phe
 115 120 125

Val Ala Ile Cys Tyr Pro Leu His Tyr Thr Leu Phe Met Gly Pro Arg
 130 135 140
 Val Cys Leu Lys Leu Ala Ala Ala Ser Trp Phe Thr Gly Val Val Val
 145 150 155 160
 Glu Ser Ala Gln Ile Thr Leu Ile Phe Thr Leu Pro Phe Cys Gly Thr
 165 170 175
 Gly Lys Ile Pro Thr Leu Phe Cys Asp Ile Met Pro Val Leu Lys Leu
 180 185 190
 Ala Cys Ile Asp Thr Ser Gln Ile Glu Ile Val Met Phe Ser Leu Ser
 195 200 205
 Val Leu Phe Ile Val Ser Pro Cys Phe Leu Ile Leu Cys Ser His Met
 210 215 220
 His Ile Pro Val Thr Ile Leu Arg Ile Pro Ser Ala Ala Gly Arg His
 225 230 235 240
 Lys Ala Phe Ser Thr Cys Ser Ser His Ile Leu Val Val Ser Leu Phe
 245 250 255
 Tyr Gly Thr Ala Leu Phe Thr Tyr Leu Gln Pro Lys Thr Ala His Thr
 260 265 270
 Pro Glu Thr Asp Lys Ala Thr Ala Leu Met Tyr Thr Met Val Thr Pro
 275 280 285
 Ala Leu Asn Pro Val Ile Tyr Thr Leu Arg Asn Lys Glu Val Lys Glu
 290 295 300
 Ala Phe Gln Arg Ile Thr Gln Arg Asn Ser Leu Arg Gln Thr
 305 310 315

<210> 2088

<211> 317

<212> PRT

<213> Homo sapien (7024122-6-11866-14009)

<220>

<221> VARIANT

<222> (1)...(317)

<223> Xaa = Any Amino Acid

<400> 2088

Met Gly Asp Lys Gly Thr Gly Asn His Ser Asp Val Thr Asp Phe Ile
 1 5 10 15
 Leu Glu Gly Phe Arg Val Arg Pro Glu Phe Tyr Ile Leu Leu Phe Phe
 20 25 30
 Leu Phe Leu Leu Ile Tyr Ser Met Val Leu Leu Gly Asn Ile Ser Val
 35 40 45
 Met Thr Ile Ile Val Thr Asp Ser Gln Leu Asn Thr Pro Met Tyr Phe
 50 55 60
 Phe Leu Gly Asn Leu Ser Phe Ile Asp Val Ser Tyr Ser Thr Val Ile
 65 70 75 80
 Ala Pro Lys Ala Met Ala His Phe Leu Ser Glu Lys Lys Thr Val Ser
 85 90 95
 Phe Ala Gly Cys Val Ala Gln Leu Phe Leu Phe Ala Leu Phe Ile Val
 100 105 110
 Thr Glu Gly Phe Val Leu Ala Ala Met Ala Tyr Asp Arg Phe Ser Ala
 115 120 125
 Ile Cys Asn Pro Leu Leu His Ser Val His Met Ser Arg Arg Leu Cys
 130 135 140
 Thr Gln Leu Val Ala Gly Ser Tyr Phe Cys Gly Trp Ala Ser Ser Ile
 145 150 155 160
 Leu Gln Val Ser Val Thr Phe Ser Val Ser Phe Cys Ala Ser Arg Val
 165 170 175
 Ile Ala His Phe Tyr Cys Asp Ser Tyr Gln Ile Glu Lys Ile Ser Cys
 180 185 190
 Ser Asn Leu Phe Val Asn Lys Met Val Ser Leu Ser Leu Ser Val Ile

```
<210> 2089
<211> 315
<212> PRT
<213> Homo sapien (7107785-12-32121-33524)
```

| | | | | | | | | | | | | | | | |
|------------|------------|-----|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| Met 1 | Ser | Pro | Asp | Gly 5 | Asn | His | Ser | Ser | Asp 10 | Pro | Thr | Glu | Phe | Val 15 | Leu |
| Ala | Gly | Leu | Pro 20 | Asn | Leu | Asn | Ser | Ala 25 | Arg | Val | Glu | Leu | Phe 30 | Ser | Val |
| Phe | Leu | Leu | Val 35 | Tyr | Leu | Leu | Asn 40 | Leu | Thr | Gly | Asn | Val 45 | Leu | Ile | Val |
| Gly | Val 50 | Val | Arg | Ala | Asp | Thr 55 | Arg | Leu | Gln | Thr | Pro 60 | Met | Tyr | Phe | Phe |
| Leu 65 | Gly | Asn | Leu | Ser | Cys 70 | Leu | Glu | Ile | Leu | Leu | Thr 75 | Ser | Val | Ile | Ile |
| Pro | Lys | Met | Leu | Ser 85 | Asn | Phe | Leu | Ser | Arg 90 | Gln | His | Thr | Ile | Ser 95 | Phe |
| Ala | Ala | Cys | Ile 100 | Thr | Gln | Phe | Tyr | Phe 105 | Tyr | Phe | Phe | Leu | Gly 110 | Ala | Ser |
| Glu | Phe 115 | Leu | Leu | Leu | Ala | Val | Met 120 | Ser | Ala | Asp | Arg | Tyr | Leu | Ala | Ile |
| Cys | His 130 | Pro | Leu | Arg | Tyr | Pro 135 | Leu | Leu | Met | Ser | Gly 140 | Ala | Val | Cys | Phe |
| Arg 145 | Val | Ala | Leu | Ala | Cys 150 | Trp | Val | Gly | Gly | Leu 155 | Val | Pro | Val | Leu | Gly 160 |
| Pro | Thr | Val | Ala | Val 165 | Ala | Leu | Leu | Pro | Phe 170 | Cys | Lys | Gln | Gly | Ala 175 | Val |
| Val | Gln | His | Phe 180 | Phe | Cys | Asp | Ser | Gly 185 | Pro | Leu | Leu | Arg | Leu 190 | Ala | Cys |
| Thr | Asn 195 | Thr | Lys | Lys | Leu | Glu | Glu 200 | Thr | Asp | Phe | Val | Leu 205 | Ala | Ser | Leu |
| Val 210 | Ile | Val | Ser | Ser | Leu | Leu | Ile 215 | Thr | Ala | Val | Ser | Tyr | Gly | Leu | Ile |
| Val 225 | Leu | Ala | Val | Leu | Ser 230 | Ile | Pro | Ser | Ala | Ser 235 | Gly | Arg | Gln | Lys | Ala 240 |
| Phe | Ser | Thr | Cys | Thr 245 | Ser | His | Leu | Ile | Val 250 | Val | Thr | Leu | Phe | Tyr 255 | Gly |
| Ser | Ala | Ile | Phe 260 | Leu | Tyr | Val | Arg | Pro 265 | Ser | Gln | Ser | Gly | Ser | Val | Asp |
| Thr | Asn 275 | Trp | Ala | Val | Thr | Val | Ile 280 | Thr | Thr | Phe | Val | Thr 285 | Pro | Leu | Leu |
| Asn | Pro 290 | Phe | Ile | Tyr | Ala | Leu | Arg 295 | Asn | Glu | Gln | Val 300 | Lys | Glu | Ala | Leu |
| Lys | Asp | Met | Phe | Arg | Lys | Val | Val | Ala | Gly | Val | | | | | |

305

310

315

<210> 2090
 <211> 141
 <212> PRT
 <213> Homo sapien (7107785-6-1204-2472)

<220>
 <221> VARIANT
 <222> (1)...(141)
 <223> Xaa = Any Amino Acid

<400> 2090
 Arg Asn Ile Arg Ile Ser Leu Pro Ile Tyr Phe Leu Ser Val Xaa Glu
 1 5 10 15
 Glu Arg Phe Gly Arg Glu Glu Phe Leu Arg Val Trp Thr Tyr Xaa Leu
 20 25 30
 Ile Ser Met Arg Asn Cys Phe Leu Arg Gly Cys Leu Met Tyr Xaa Met
 35 40 45
 Ile Phe Ser Trp Ser Cys Thr Glu Tyr Val Val His Met Phe Phe Ser
 50 55 60
 Leu Leu Asn Ser Gly Ile Ser Thr Glu Cys Gln Ile Ser Tyr Gln Gln
 65 70 75 80
 Asn Lys Asp Ile Ala Ile Phe Phe Leu His Asn Leu Xaa Xaa Lys Glu
 85 90 95
 Asn Phe Glu Ile Phe Leu Tyr Glu Asp Tyr Cys Ser His Ile Arg Asp
 100 105 110
 Leu Thr Lys Ile Ser Leu Gly Glu Ala Gly Xaa Asn Tyr Xaa Gly Lys
 115 120 125
 Ser Thr Thr Ile Glu Phe Leu Phe Leu Ala Leu Leu Phe
 130 135 140

<210> 2091
 <211> 202
 <212> PRT
 <213> Homo sapien (7134787-10-3417-6169)

<220>
 <221> VARIANT
 <222> (1)...(202)
 <223> Xaa = Any Amino Acid

<400> 2091
 Ile Phe Ala Ile Leu Thr Thr Ile Asp Cys Cys Val Phe Val Trp Glu
 1 5 10 15
 Phe Leu Glu Cys Thr Val Phe Val Asn Lys Arg Ala Cys Ala Gln Leu
 20 25 30
 Ala Cys Gly Ala Phe Cys Ile Gly Leu Ile Met Thr Val Val Xaa Ile
 35 40 45
 Thr Thr Val Ser Gln Arg Tyr Lys Arg Ser Thr Tyr Ala Ile Val Asp
 50 55 60
 Cys Phe Leu Phe Asp Thr Leu Leu Val Met Lys Leu Ser Cys Ile Asp
 65 70 75 80
 Asn Thr Ile Tyr Glu Ile Ile Gln Tyr Phe Ile His His Thr Cys Val
 85 90 95
 Gln Val Ser Met Gly Leu Val Cys Ile Ser Tyr Ile Asp Ile Pro Val
 100 105 110
 Thr Ser Ile Val Leu Arg Ile Ser Xaa Ser Glu Val Phe Ala Thr Cys
 115 120 125
 Val Pro Gln Pro Pro Pro His His Gly His Cys Leu Tyr Val Cys Ala
 130 135 140

Cys Thr Ala Tyr Leu Lys His Lys Pro Met Asn Ser Ile Glu Lys Gly
 145 150 155 160
 Leu Leu Xaa Glu Thr Tyr Ile Ile Ile Ile His Ser Ala Ser Gly Pro
 165 170 175
 Val Val Tyr Thr Leu Arg Tyr Met Glu Ala Lys Asp Thr Met Tyr Arg
 180 185 190
 Ala Val Asp Arg Asn Ile Ser Xaa Gln Ile
 195 200

<210> 2092

<211> 276

<212> PRT

<213> Homo sapien (7134787-7-358-5219)

<400> 2092

Met Arg Arg Lys Asn Leu Thr Glu Val Thr Glu Phe Val Phe Leu Gly
 1 5 10 15
 Phe Ser Arg Phe His Lys His His Ile Thr Leu Phe Val Val Phe Leu
 20 25 30
 Ile Leu Tyr Thr Leu Thr Val Ala Gly Asn Ala Ile Ile Met Thr Ile
 35 40 45
 Ile Cys Ile Asp Arg His Leu His Thr Pro Met Tyr Phe Phe Leu Ser
 50 55 60
 Met Leu Ala Ser Ser Lys Thr Val Tyr Thr Leu Phe Ile Ile Pro Gln
 65 70 75 80
 Met Leu Ser Ser Phe Val Thr Gln Thr Gln Pro Ile Ser Leu Ala Gly
 85 90 95
 Cys Thr Thr Gln Thr Phe Phe Phe Val Thr Leu Ala Ile Asn Asn Cys
 100 105 110
 Phe Leu Leu Thr Val Met Gly Tyr Asp His Tyr Met Ala Ile Cys Asn
 115 120 125
 Pro Leu Arg Tyr Arg Val Ile Thr Ser Lys Lys Val Cys Val Gln Leu
 130 135 140
 Val Cys Gly Ala Phe Ser Ile Gly Leu Ala Met Ala Ala Val Gln Val
 145 150 155 160
 Thr Ser Ile Phe Thr Leu Pro Phe Cys His Thr Val Val Gly His Phe
 165 170 175
 Phe Cys Asp Ile Leu Pro Val Met Lys Leu Ser Cys Ile Asn Thr Thr
 180 185 190
 Ile Asn Glu Ile Ile Asn Phe Val Val Arg Leu Phe Val Ile Leu Val
 195 200 205
 Pro Met Gly Leu Val Phe Ile Ser Tyr Val Leu Ile Ile Ser Thr Val
 210 215 220
 Leu Lys Ile Ala Ser Ala Glu Gly Trp Lys Lys Thr Phe Ala Thr Cys
 225 230 235 240
 Ala Phe His Leu Thr Val Val Ile Val His Tyr Gly Cys Ala Ser Ile
 245 250 255
 Ala Tyr Leu Met Pro Lys Ser Glu Asn Ser Ile Glu Gln Asp Leu Leu
 260 265 270
 Leu Ser Val Thr
 275

<210> 2093

<211> 310

<212> PRT

<213> Homo sapien (7139676-7-1545-4565)

<400> 2093

Met Gln Leu Asn Asn Asn Val Thr Glu Phe Ile Leu Leu Gly Leu Thr
 1 5 10 15
 Gln Asp Pro Phe Trp Lys Lys Ile Val Phe Val Ile Phe Leu Arg Leu

20 25 30
 Tyr Leu Gly Thr Leu Leu Gly Asn Leu Leu Ile Ile Ile Ser Val Lys
 35 40 45
 Ala Ser Gln Ala Leu Lys Asn Pro Met Phe Phe Phe Leu Phe Tyr Leu
 50 55 60
 Ser Leu Ser Asp Thr Cys Leu Ser Thr Ser Ile Ala Pro Arg Met Ile
 65 70 75 80
 Val Asp Ala Leu Leu Lys Lys Thr Thr Ile Ser Phe Ser Glu Cys Met
 85 90 95
 Ile Gln Val Phe Ser Ser His Val Phe Gly Cys Leu Glu Ile Phe Ile
 100 105 110
 Leu Ile Leu Thr Ala Val Asp Arg Tyr Val Asp Ile Cys Lys Pro Leu
 115 120 125
 His Tyr Met Thr Ile Ile Ser Gln Trp Val Cys Gly Val Leu Met Ala
 130 135 140
 Val Ala Trp Val Gly Ser Cys Val His Ser Leu Val Gln Ile Phe Leu
 145 150 155 160
 Ala Leu Ser Leu Pro Phe Cys Gly Pro Asn Val Ile Asn His Cys Phe
 165 170 175
 Cys Asp Leu Gln Pro Leu Leu Lys Gln Ala Cys Ser Glu Thr Tyr Val
 180 185 190
 Val Asn Leu Leu Leu Val Ser Asn Ser Gly Ala Ile Cys Ala Val Ser
 195 200 205
 Tyr Val Met Leu Ile Phe Ser Tyr Val Ile Phe Leu His Ser Leu Arg
 210 215 220
 Asn His Ser Ala Glu Val Ile Lys Lys Ala Leu Ser Thr Cys Val Ser
 225 230 235 240
 His Ile Ile Val Val Ile Leu Phe Phe Gly Pro Cys Ile Phe Met Tyr
 245 250 255
 Thr Cys Pro Ala Thr Val Phe Pro Met Asp Lys Met Ile Ala Val Phe
 260 265 270
 Tyr Thr Val Gly Thr Ser Phe Leu Asn Pro Val Ile Tyr Thr Leu Lys
 275 280 285
 Asn Thr Glu Val Lys Ser Ala Met Arg Lys Leu Trp Ser Lys Lys Leu
 290 295 300
 Ile Thr Asp Asp Lys Arg
 305 310

<210> 2094

<211> 311

<212> PRT

<213> Homo sapien (7139676-9-1-2285)

<400> 2094

Met Glu Lys Ser Asn Asn Ser Thr Leu Phe Ile Leu Leu Gly Phe Ser
 1 5 10 15
 Gln Asn Lys Asn Ile Glu Val Leu Cys Phe Val Leu Phe Leu Phe Cys
 20 25 30
 Tyr Ile Ala Ile Trp Met Gly Asn Leu Leu Ile Met Ile Ser Ile Thr
 35 40 45
 Cys Thr Gln Leu Ile His Gln Pro Met Tyr Phe Phe Leu Asn Tyr Leu
 50 55 60
 Ser Leu Ser Asp Leu Cys Tyr Thr Ser Thr Val Thr Pro Lys Leu Met
 65 70 75 80
 Val Asp Leu Leu Ala Glu Arg Lys Thr Ile Ser Tyr Asn Asn Cys Met
 85 90 95
 Ile Gln Leu Phe Thr Thr His Phe Phe Gly Gly Ile Glu Ile Phe Ile
 100 105 110
 Leu Thr Gly Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Lys Pro Leu
 115 120 125
 His Tyr Thr Ile Ile Met Ser Arg Gln Lys Cys Asn Thr Ile Ile Ile

| | | |
|---|-----|-----|
| 130 | 135 | 140 |
| Val Cys Trp Thr Gly Gly Phe Ile His Ser Ala Ser Gln Phe Leu Leu | | |
| 145 | 150 | 155 |
| Thr Ile Phe Val Pro Phe Cys Gly Pro Asn Glu Ile Asp His Tyr Phe | | 160 |
| | 165 | 170 |
| Cys Asp Val Tyr Pro Leu Leu Lys Leu Ala Cys Ser Asn Ile His Met | | 175 |
| | 180 | 185 |
| Ile Gly Leu Leu Val Ile Ala Asn Ser Gly Leu Ile Ala Leu Val Thr | | 190 |
| | 195 | 200 |
| Phe Val Val Leu Leu Leu Ser Tyr Val Phe Ile Leu Tyr Thr Ile Arg | | 205 |
| | 210 | 215 |
| Ala Tyr Ser Ala Glu Arg Arg Ser Lys Ala Leu Ala Thr Cys Ser Ser | | 220 |
| 225 | 230 | 235 |
| His Val Ile Val Val Leu Phe Phe Ala Pro Ala Leu Phe Ile Tyr | | 240 |
| | 245 | 250 |
| Ile Arg Pro Val Thr Thr Phe Ser Glu Asp Lys Val Phe Ala Leu Phe | | 255 |
| | 260 | 265 |
| Tyr Thr Ile Ile Ala Pro Met Phe Asn Pro Leu Ile Tyr Thr Leu Arg | | 270 |
| | 275 | 280 |
| Asn Thr Glu Met Lys Asn Ala Met Arg Lys Val Trp Cys Cys Gln Ile | | 285 |
| | 290 | 295 |
| Leu Leu Lys Arg Asn Gln Leu | | 300 |
| 305 | 310 | |

<210> 2095

<211> 319

<212> PRT

<213> Homo sapien (7144617-1-1-995)

<400> 2095

| | |
|---|-----|
| Met Ala Pro Thr Asn Leu Thr Ser Ala Pro Val Phe Leu Leu Leu Gly | |
| 1 | 5 |
| Leu Val Thr Glu Gln Thr Asp Ala His Pro Leu Leu Phe Leu Leu Cys | |
| | 10 |
| | 15 |
| | 20 |
| Leu Gly Ile Tyr Leu Leu Asn Ala Leu Ser Asn Leu Ser Met Val Ala | |
| | 25 |
| | 30 |
| | 35 |
| Leu Val Arg Ser Asp Gly Ala Leu Arg Ser Pro Met Tyr Tyr Phe Leu | |
| | 40 |
| | 45 |
| | 50 |
| Gly His Leu Ser Leu Val Asp Val Cys Phe Thr Thr Val Thr Val Pro | |
| | 55 |
| | 60 |
| | 65 |
| Arg Leu Leu Ala Gly Leu Leu His Pro Gly Gln Ala Ile Ser Phe Gln | |
| | 70 |
| | 75 |
| | 80 |
| | 85 |
| Ala Cys Phe Ala Glu Met Tyr Phe Phe Val Ala Leu Gly Ile Thr Glu | |
| | 90 |
| | 95 |
| | 100 |
| Ser Tyr Leu Pro Ala Ala Met Ser Tyr Asp Arg Ala Thr Ala Ala Cys | |
| | 105 |
| | 110 |
| | 115 |
| Arg Pro Leu Arg Tyr Gly Ala Leu Val Thr His Gly Arg Cys Ala Ser | |
| | 120 |
| | 125 |
| | 130 |
| Leu Val Arg Ala Ser Trp Ala Val Thr His Leu His Ser Leu Leu His | |
| | 135 |
| | 140 |
| 145 | 150 |
| Thr Leu Leu Leu Ser Ala Leu Ser Tyr Pro Tyr Pro Thr Pro Val Arg | |
| | 155 |
| | 160 |
| | 165 |
| Pro Phe Phe Cys Asp Met Thr Val Met Leu Ser Leu Ala Thr Ser Asp | |
| | 170 |
| | 175 |
| | 180 |
| Thr Ser Ala Ala Glu Thr Ala Ile Phe Ser Glu Gly Leu Ala Val Val | |
| | 185 |
| | 190 |
| | 195 |
| Leu Ala Pro Leu Leu Leu Val Phe Leu Ser Tyr Ala Arg Ile Leu Val | |
| | 200 |
| | 205 |
| | 210 |
| Ala Val Leu Gly Leu Pro Arg Pro Arg Arg Ala Phe Ser Thr Cys Gly | |
| | 215 |
| | 220 |
| 225 | 230 |
| Ala His Leu Val Ala Val Ala Val Ala Val Ala Leu Phe Phe Gly Ser | |
| | 235 |
| | 240 |

| | | | | | | | | | | | | | | | | |
|-------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| <400> | 2096 | | | | | | | | | | | | | | | |
| Leu | Leu | Glu | Gly | Gly | Asn | Gln | Thr | Ser | Thr | Phe | Glu | Phe | Leu | Leu | Trp | |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | | |
| Gly | Leu | Ser | Asp | Gln | Pro | Gln | Gln | Gln | His | Ile | Phe | Phe | Leu | Leu | Phe | |
| | | | 20 | | | | | 25 | | | | | 30 | | | |
| Leu | Trp | Met | Tyr | Val | Val | Thr | Val | Ala | Gly | Asn | Leu | Leu | Ile | Val | Leu | |
| | | 35 | | | | | 40 | | | | | 45 | | | | |
| Ala | Ile | Gly | Thr | Asp | Thr | His | Leu | His | Thr | Pro | Met | Tyr | Phe | Phe | Leu | |
| | 50 | | | | | 55 | | | | | 60 | | | | | |
| Ala | Ser | Leu | Ser | Cys | Ala | Asp | Ile | Phe | Ser | Thr | Ser | Thr | Thr | Val | Pro | |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 | |
| Lys | Ala | Leu | Val | Asn | Ile | Gln | Thr | Gln | Ser | Arg | Ser | Ile | Ser | Tyr | Ala | |
| | | | | 85 | | | | | 90 | | | | | 95 | | |
| Gly | Cys | Leu | Ala | Gln | Leu | Tyr | Phe | Phe | Leu | Thr | Phe | Gly | Asp | Met | Asp | |
| | | | 100 | | | | | 105 | | | | | 110 | | | |
| Ile | Phe | Leu | Pro | Ala | Thr | Met | Ala | Tyr | Asp | Arg | Tyr | Val | Ala | Ile | Cys | |
| | | 115 | | | | | 120 | | | | | 125 | | | | |
| His | Leu | Leu | His | Tyr | Met | Met | Ile | Met | Ser | Leu | His | Arg | Cys | Ala | Phe | |
| | 130 | | | | | 135 | | | | | 140 | | | | | |
| Leu | Val | Thr | Ala | Cys | Trp | Thr | Leu | Thr | Ser | Leu | Ala | Met | Thr | Arg | | |
| 145 | | | | | 150 | | | | | 155 | | | | 160 | | |
| Thr | Phe | Leu | Ile | Phe | Arg | Leu | Ser | Leu | Cys | Ser | Xaa | Ile | Leu | Pro | Gly | |
| | | | | 165 | | | | | 170 | | | | | 175 | | |
| Phe | Phe | Cys | Asp | Leu | Gly | Pro | Leu | Met | Lys | Val | Ser | Cys | Ser | Asp | Ala | |
| | | | 180 | | | | | 185 | | | | | 190 | | | |
| Gln | Val | Asn | Glu | Leu | Val | Leu | Leu | Phe | Leu | Gly | Gly | Ala | Val | Ile | Leu | |
| | | 195 | | | | | 200 | | | | | 205 | | | | |
| Ile | Pro | Phe | Met | Leu | Ile | Leu | Val | Ser | Tyr | Ile | Arg | Ile | Val | Ser | Ala | |
| | 210 | | | | | 215 | | | | | 220 | | | | | |
| Ile | Leu | Arg | Ala | Pro | Ser | Ala | Gln | Gly | Arg | Arg | Lys | Ala | Phe | Ser | Thr | |
| 225 | | | | | 230 | | | | | 235 | | | | | 240 | |
| Cys | Asp | Ser | His | Leu | Val | Val | Val | Ala | Leu | Phe | Phe | Gly | Thr | Val | Ile | |
| | | | | 245 | | | | | 250 | | | | | 255 | | |
| Arg | Ala | Tyr | Leu | Cys | Pro | Ser | Ser | Ser | Ser | Ser | Asn | Ser | Val | Lys | Glu | |
| | | | 260 | | | | | 265 | | | | | 270 | | | |
| Asp | Thr | Ala | Ala | Ala | Val | Met | Tyr | Thr | Val | Val | Thr | Pro | Leu | Leu | Asn | |
| | | 275 | | | | | 280 | | | | | 285 | | | | |
| Pro | Phe | Ile | Tyr | Ser | Met | Arg | Asn | Lys | Asp | Met | Lys | Ala | Ala | Val | Val | |
| | | 290 | | | | 295 | | | | | 300 | | | | | |
| Arg | Leu | Leu | Lys | Gly | Arg | Val | Ser | Phe | Ser | Gln | Gly | | | | | |
| 305 | | | | | 310 | | | | | 315 | | | | | | |

<210> 2097
 <211> 247
 <212> PRT
 <213> Homo sapien (7144976-1-1-1194)

<220>
 <221> VARIANT
 <222> (1)...(247)
 <223> Xaa = Any Amino Acid

<400> 2097
 Met Gly Asn Ile Asn Ile Ser Leu Glu Asn Tyr Phe Ile Leu Leu Gly
 1 5 10 15
 Leu Ser Asn Xaa Pro Pro Leu Glu Ile Val Ile Phe Val Val Leu Leu
 20 25 30
 Ile Phe Cys Phe Met Thr Leu Ile Gly Lys Leu Phe Ser Ile Ile Leu
 35 40 45
 Ser Tyr Leu Asp Ser His Pro His Thr Pro Arg Tyr Leu Phe Ser Phe
 50 55 60
 Leu Asp Phe Cys Tyr Thr Ile Ser Ser Ile Phe Xaa Leu Gln Tyr Asn
 65 70 75 80
 Leu Trp Gly Pro Gln Lys Asn Ile Ser Tyr Ala Ser Gly Met Ile Gln
 85 90 95
 Ile Tyr Phe Val Leu Thr Leu Gly Thr Met Asp Cys Ala Leu Leu Val
 100 105 110
 Val Met Ser Arg Thr Val Tyr Ala Ala Gly His Arg His Leu Pro Tyr
 115 120 125
 Thr Val Val Met Ala Val Ala Phe Trp Val Ser Ser Phe Thr Asn Ser
 130 135 140
 Ala Phe Asp Ser Phe Phe Thr Phe Trp Val Thr Leu Cys Gly His His
 145 150 155 160
 Tyr Tyr Ala Tyr Ile Phe Ile Phe Thr Ser Leu Leu Val Xaa Arg Trp
 165 170 175
 Phe Ile Asn Arg Lys Lys Gln Ser Val Phe Ser Leu Asn His Ala Ala
 180 185 190
 Leu Leu Thr Leu Ser Phe Pro Leu Xaa Asn Asp Cys Phe Gln Glu Ile
 195 200 205
 Glu Lys Asn Met Leu Arg Lys His Ser Ile Gly Glu Cys Xaa Lys His
 210 215 220
 Val Met Leu Val Gln Leu Asn Gln Val Ser Lys Thr Cys Ile Phe Met
 225 230 235 240
 Arg Pro Ile Leu Gly Asn Ser
 245

<210> 2098
 <211> 329
 <212> PRT
 <213> Homo sapien (7145001-12-25597-26388)

<220>
 <221> VARIANT
 <222> (1)...(329)
 <223> Xaa = Any Amino Acid

<400> 2098
 Lys Ser Met Lys Lys Met Asn Asn Val Ile Glu Phe Ile Leu Leu Gly
 1 5 10 15
 Leu Thr His Asn Pro Glu Leu Gln Lys Phe Leu Phe Val Met Phe Leu
 20 25 30
 Ile Thr Tyr Leu Ile Thr Leu Ala Gly Asn Leu Phe Ile Ser Val Ile

```

      35      40      45
Ile Phe Ile Ser Pro Ala Leu Gly Ser Pro Met Tyr Ser Phe Pro Ser
  50      55      60
Tyr Leu Phe Ile Ile Asp Ile Phe Cys Ser Ser Ser Ile Ala Pro Lys
  65      70      75      80
Met Asn Phe Asp Leu Ile Ser Glu Lys Asn Thr Ile Ser Phe Asn Gly
      85      90      95
Cys Met Thr Gln Leu Phe Thr Glu His Phe Phe Thr Glu His Phe Phe
      100      105      110
Glu Ala Ala Glu Ile Ile Leu Leu Ser Val Met Ala Tyr Asp His Tyr
      115      120      125
Val Ala Ile Arg Lys Pro Leu His Tyr Ala Thr Ile Met Ser Gln Pro
      130      135      140
Met Cys Gly Phe Leu Met Val Val Ala Gly Ile Leu Gly Phe Val His
      145      150      155      160
Gly Gly Ile Gln Thr Leu Phe Ile Ala Gln Leu Pro Phe Cys Gly Pro
      165      170      175
Asn Val Ile Asn His Phe Met Cys Asp Leu Val Pro Leu Leu Glu Leu
      180      185      190
Ala Cys Thr Asp Thr His Thr Leu Gly Pro Leu Ile Ala Ala Asn Ser
      195      200      205
Gly Ser Leu Cys Phe Leu Ile Phe Ser Met Leu Val Ala Ser Tyr Val
      210      215      220
Ile Ile Leu Cys Phe Leu Arg Thr His Ser Ser Glu Gly Arg Arg Lys
      225      230      235      240
Ala Leu Ser Ser Cys Ala Ser His Ile Phe Ile Val Ile Leu Phe Phe
      245      250      255
Val Pro Phe Ser Tyr Leu Tyr Leu Arg Pro Ile His Ser Phe Pro Thr
      260      265      270
Asp Lys Ala Val Thr Val Phe Cys Thr Leu Phe Thr Pro Met Leu Asn
      275      280      285
Pro Leu Ile Tyr Thr Leu Lys Asn Lys Glu Val Lys Asn Val Ile Lys
      290      295      300
Lys Leu Trp Lys Gln Ile Met Thr Thr Asp Asp Lys Xaa Val Leu Xaa
      305      310      315      320
His Lys His Leu Gly Lys Asn Ile Trp
      325

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<210> 2099

<211> 264

<212> PRT

<213> Homo sapien (7145001-12-45102-50811)

<400> 2099

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Met Val Asp Asn Leu Ile Ile Val Val Thr Ile Thr Thr Ser Pro Ala
  1      5      10      15
Leu Asp Ser Pro Val Tyr Phe Phe Leu Ser Phe Phe Ser Phe Ile Asp
      20      25      30
Gly Cys Ser Ser Ser Thr Met Ala Pro Lys Met Ile Phe Asp Leu Leu
      35      40      45
Thr Glu Lys Lys Thr Ile Ser Phe Ser Gly Cys Met Thr Gln Leu Phe
      50      55      60
Val Glu His Phe Phe Gly Gly Val Glu Ile Ile Leu Leu Val Val Met
      65      70      75      80
Ala Tyr Asp Cys Tyr Val Ala Ile Cys Lys Pro Leu Tyr Tyr Leu Ile
      85      90      95
Thr Met Asn Arg Gln Val Cys Gly Leu Leu Val Ala Met Ala Trp Val
      100      105      110
Gly Gly Phe Leu His Ala Leu Ile Gln Met Leu Leu Ile Val Trp Leu
      115      120      125
Pro Phe Cys Gly Pro Asn Val Ile Asp His Phe Ile Cys Asp Leu Phe

```

| | | |
|---|-----|-----|
| 130 | 135 | 140 |
| Pro Leu Leu Lys Leu Ser Cys Thr Asp Thr His Val Phe Gly Leu Phe | | |
| 145 | 150 | 155 |
| Val Ala Ala Asn Ser Gly Leu Met Cys Met Leu Ile Phe Ser Ile Leu | | 160 |
| | 165 | 170 |
| Ile Thr Ser Tyr Val Leu Ile Leu Cys Ser Gln Arg Lys Ala Leu Ser | | 175 |
| | 180 | 185 |
| Thr Cys Ala Phe His Ile Thr Val Val Val Leu Phe Phe Val Pro Cys | | 190 |
| | 195 | 200 |
| Ile Leu Val Tyr Leu Arg Pro Met Ile Thr Phe Pro Ile Asp Lys Ala | | 205 |
| | 210 | 215 |
| Val Ser Val Phe Tyr Thr Val Val Thr Pro Met Leu Asn Pro Leu Ile | | 220 |
| 225 | 230 | 235 |
| Tyr Thr Leu Arg Asn Thr Glu Val Lys Asn Ala Met Lys Gln Leu Trp | | 240 |
| | 245 | 250 |
| Ser Gln Ile Ile Trp Gly Asn Asn | | 255 |
| | 260 | |

<210> 2100

<211> 309

<212> PRT

<213> Homo sapien (7145001-8-11112-14684)

<400> 2100

| | | |
|---|-----|-----|
| Met Gly Ala Lys Asn Asn Val Thr Glu Phe Val Leu Phe Gly Leu Phe | | |
| 1 | 5 | 10 |
| Glu Ser Arg Glu Met Gln His Thr Cys Phe Val Val Phe Phe Leu Phe | | 15 |
| | 20 | 25 |
| His Val Leu Thr Val Leu Gly Asn Leu Leu Val Ile Ile Thr Ile Asn | | 30 |
| | 35 | 40 |
| Ala Arg Lys Thr Leu Lys Ser Pro Met Tyr Phe Phe Leu Ser Gln Leu | | 45 |
| | 50 | 55 |
| Ser Phe Ala Asp Ile Cys Tyr Pro Ser Thr Thr Ile Pro Lys Met Ile | | 60 |
| 65 | 70 | 75 |
| Ala Asp Thr Phe Val Glu His Lys Ile Ile Ser Phe Asn Gly Cys Met | | 80 |
| | 85 | 90 |
| Thr Gln Leu Phe Ser Ala His Phe Phe Gly Gly Thr Glu Ile Phe Leu | | 95 |
| | 100 | 105 |
| Leu Thr Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Arg Pro Leu | | 110 |
| | 115 | 120 |
| His Tyr Thr Ala Ile Met Asp Cys Arg Lys Cys Gly Leu Leu Ala Gly | | 125 |
| | 130 | 135 |
| Ala Ser Trp Leu Ala Gly Phe Leu His Ser Ile Leu Gln Thr Leu Leu | | 140 |
| 145 | 150 | 155 |
| Thr Val Gln Leu Pro Phe Cys Gly Pro Asn Glu Ile Asp Asn Phe Phe | | 160 |
| | 165 | 170 |
| Cys Asp Val His Pro Leu Leu Lys Leu Ala Cys Ala Asp Thr Tyr Met | | 175 |
| | 180 | 185 |
| Val Gly Leu Ile Val Val Ala Asn Ser Gly Met Ile Ser Leu Ala Ser | | 190 |
| | 195 | 200 |
| Phe Phe Ile Leu Ile Ile Ser Tyr Val Ile Ile Leu Leu Asn Leu Arg | | 205 |
| | 210 | 215 |
| Ser Gln Ser Ser Glu Asp Arg Arg Lys Ala Val Ser Thr Cys Gly Ser | | 220 |
| 225 | 230 | 235 |
| His Val Ile Thr Val Leu Leu Val Leu Met Pro Pro Met Phe Met Tyr | | 240 |
| | 245 | 250 |
| Ile Arg Pro Ser Thr Thr Leu Ala Ala Asp Lys Leu Ile Ile Leu Phe | | 255 |
| | 260 | 265 |
| Asn Ile Val Met Pro Pro Leu Leu Asn Pro Leu Ile Tyr Thr Leu Arg | | 270 |
| | 275 | 280 |
| Asn Asn Asp Val Lys Asn Ala Met Arg Lys Leu Phe Arg Val Lys Arg | | 285 |

290
Ser Leu Gly Glu Lys
305

295

300

<210> 2101
<211> 296
<212> PRT
<213> Homo sapien (7145013-16-7265-9434)

<400> 2101
Leu Leu Leu Leu Val Leu Leu Leu Pro Thr Phe Leu Leu Ser Leu Met
1 5 10 15
Gly Asn Met Leu Ile Ile Ser Thr Val Leu Ser Cys Ser Arg Leu His
20 25 30
Thr Pro Met Tyr Phe Phe Leu Cys Asn Leu Ser Ile Leu Asp Ile Leu
35 40 45
Phe Thr Ser Val Ile Ser Pro Lys Val Leu Ala Asn Leu Gly Ser Arg
50 55 60
Asp Lys Thr Ile Ser Phe Ala Gly Cys Ile Thr Gln Cys Tyr Phe Tyr
65 70 75 80
Phe Phe Leu Gly Thr Val Glu Phe Leu Leu Thr Val Met Ser Tyr
85 90 95
Asp Cys Tyr Ala Ala Ile Cys Cys Pro Leu Arg Tyr Thr Thr Ile Met
100 105 110
Arg Pro Tyr Val Cys Ile Gly Thr Val Val Phe Ser Trp Val Gly Gly
115 120 125
Phe Leu Ser Val Leu Phe Pro Thr Ile Leu Ile Ser Gln Leu Pro Phe
130 135 140
Cys Gly Ser Asn Ile Ile Asn His Phe Phe Cys Asp Ser Gly Pro Leu
145 150 155 160
Leu Ala Leu Ala Cys Ala Asp Thr Thr Ala Ile Glu Leu Met Asp Phe
165 170 175
Met Leu Ser Ser Met Val Ile Leu Cys Cys Ile Val Leu Val Ala Tyr
180 185 190
Ser Tyr Thr Tyr Ile Ile Leu Thr Ile Met Arg Ile Pro Ser Ala Ser
195 200 205
Gly Arg Lys Lys Ala Phe Asn Thr Cys Ala Ser His Leu Thr Ile Val
210 215 220
Ile Ile Ser Ser Gly Ile Thr Val Phe Ile Tyr Val Thr Pro Ser Gln
225 230 235 240
Lys Glu Tyr Leu Glu Ile Asn Lys Ile Pro Ser Val Leu Ser Ser Leu
245 250 255
Val Thr Pro Phe Leu Asn Pro Phe Ile Tyr Thr Leu Arg Asn Asp Thr
260 265 270
Val Gln Gly Val Leu Arg Asp Val Trp Val Arg Val Arg Gly Val Phe
275 280 285
Glu Lys Arg Met Arg Ala Val Leu
290 295

<210> 2102
<211> 162
<212> PRT
<213> Homo sapien (7211526-1-1-487)

<400> 2102
Val Ala Ile Cys Asn Pro Leu Leu Tyr Pro Val Met Met Ser Asn Lys
1 5 10 15
Leu Ser Ala Gln Leu Leu Ser Ile Ser Tyr Val Ile Gly Phe Leu His
20 25 30
Pro Leu Val His Val Ser Leu Leu Arg Leu Thr Phe Cys Arg Phe
35 40 45

```

Asn Ile Ile His Tyr Phe Tyr Cys Glu Ile Leu Gln Leu Phe Lys Ile
 50          55          60
Ser Cys Asn Gly Pro Ser Ile Asn Ala Leu Ile Ile Phe Ile Phe Gly
65          70          75          80
Ala Phe Ile Gln Ile Pro Thr Leu Met Thr Ile Ile Ile Ser Tyr Thr
          85          90          95
Arg Val Leu Phe Asp Ile Leu Lys Lys Lys Ser Glu Lys Gly Arg Ser
          100          105          110
Lys Ala Phe Ser Thr Cys Gly Ala His Leu Leu Ser Val Ser Leu Tyr
          115          120          125
Tyr Gly Thr Leu Ile Phe Met Tyr Val Arg Pro Ala Ser Gly Leu Ala
          130          135          140
Glu Asp Gln Asp Lys Val Tyr Ser Leu Phe Tyr Thr Ile Ile Ile Pro
145          150          155          160
Leu Leu

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```

<210> 2103
<211> 162
<212> PRT
<213> Homo sapien (7211533-1-1-487)

<220>
<221> VARIANT
<222> (1)...(162)
<223> Xaa = Any Amino Acid

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```

<400> 2103
Met Ala Ile Val Asn Pro Leu Leu Tyr Thr Val Ala Met Thr Lys Ile
 1          5          10          15
Val Cys Ile Val Leu Ala Phe Gly Ser Cys Met Gly Gly Leu Ile Ser
          20          25          30
Ser Leu Thr His Thr Ile Gly Leu Val Lys Leu Ser Phe Cys Gly Pro
          35          40          45
Asn Val Ile Ser His Phe Phe Cys Asp Leu Pro Pro Leu Leu Lys Leu
          50          55          60
Ser Cys Ser Glu Thr Ser Met Asn Glu Leu Leu Leu Leu Ile Phe Ser
65          70          75          80
Gly Ile Ile Ala Thr Leu Thr Phe Leu Thr Val Val Ile Ser Tyr Ile
          85          90          95
Phe Ile Val Ala Ala Ile Leu Arg Ile Arg Xaa Glu Ala Gly Arg Arg
          100          105          110
Lys Ala Phe Ser Thr Cys Thr Ser His Leu Ile Thr Val Thr Leu Phe
          115          120          125
Tyr Gly Ser Ile Ser Phe Ser Tyr Ile Gln Pro Asn Ser Gln Tyr Ser
          130          135          140
Leu Glu Gln Glu Lys Val Val Ser Val Phe Tyr Thr Leu Val Val Pro
145          150          155          160
Met Leu

```

```

<210> 2104
<211> 162
<212> PRT
<213> Homo sapien (7211534-1-1-485)

```

```

<400> 2104
Val Gly Ile Cys Asn Pro Leu Leu Tyr Thr Val Thr Met Ser Pro Gln
 1          5          10          15
Lys Cys Leu Leu Leu Leu Leu Gly Val Tyr Gly Met Gly Ile Phe Gly
          20          25          30

```


Ala Val Ala His Met Gly Asn Ile Met Phe Met Ser Phe Cys Gly Asp
 35 40 45
 Asn Leu Val Asn His Tyr Met Cys Asp Ile Leu Pro Leu Leu Glu Leu
 50 55 60
 Ser Cys Asn Ser Ser Tyr Ile Asn Leu Leu Val Val Phe Ile Ile Val
 65 70 75 80
 Thr Val Gly Ile Gly Val Pro Ile Val Thr Ile Phe Leu Ser Tyr Gly
 85 90 95
 Phe Ile Leu Ser Ser Ile Leu His Ile Ser Ser Thr Glu Gly Arg Ser
 100 105 110
 Lys Ala Phe Ser Thr Cys Ser Ser His Ile Ile Val Val Ser Leu Phe
 115 120 125
 Phe Gly Ser Gly Ala Phe Met Tyr Leu Lys Pro Pro Ser Ile Leu Pro
 130 135 140
 Leu Asp Gln Gly Lys Val Ser Ser Ile Phe Cys Thr Ala Val Val Pro
 145 150 155 160
 Met Phe

<210> 2105

<211> 162

<212> PRT

<213> Homo sapien (7211536-1-1-487)

<400> 2105

Val Ala Ile Cys Lys Pro Leu His Tyr Val Val Ile Met Asn Asn Arg
 1 5 10 15
 Val Cys Thr Leu Leu Val Leu Cys Cys Trp Val Ala Gly Leu Met Ile
 20 25 30
 Ile Val Pro Pro Leu Ser Leu Gly Leu Gln Leu Glu Phe Cys Asp Ser
 35 40 45
 Asn Ala Ile Asp His Phe Ser Cys Asp Ala Gly Pro Leu Leu Lys Ile
 50 55 60
 Ser Cys Ser Asp Thr Trp Val Ile Glu Gln Met Val Ile Leu Met Ala
 65 70 75 80
 Val Phe Ala Leu Ile Ile Thr Pro Val Cys Val Ile Leu Ser Tyr Leu
 85 90 95
 Tyr Ile Val Arg Thr Ile Leu Lys Phe Pro Ser Val Gln Gln Arg Lys
 100 105 110
 Lys Ala Phe Ser Thr Cys Ser Ser His Met Ile Val Val Ser Ile Ala
 115 120 125
 Tyr Gly Ser Cys Ile Phe Ile Tyr Ile Lys Pro Ser Ala Lys Asp Glu
 130 135 140
 Val Ala Ile Asn Lys Gly Val Ser Val Leu Thr Thr Ser Val Ala Pro
 145 150 155 160
 Leu Leu

<210>.2106

<211> 162

<212> PRT

<213> Homo sapien (7211538-1-1-487)

<400> 2106

Val Ala Ile Cys His Pro Leu His Tyr Thr Val Ile Met Arg Glu Glu
 1 5 10 15
 Leu Cys Val Phe Leu Val Ala Val Thr Trp Ile Leu Ser Cys Ala Ser
 20 25 30
 Ser Leu Ser His Thr Leu Leu Leu Thr Arg Leu Ser Phe Cys Ala Ala
 35 40 45
 Asn Thr Ile Pro His Val Phe Cys Asp Leu Ala Ala Leu Leu Lys Leu

| | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|
| 50 | 55 | 60 | | | | | | | | | | | | | | | |
| Ser | Cys | Ser | Asp | Ile | Phe | Leu | Asn | Glu | Leu | Val | Met | Phe | Thr | Val | Gly | | |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 | | |
| Val | Val | Val | Ile | Thr | Leu | Pro | Phe | Met | Cys | Ile | Leu | Val | Ser | Tyr | Gly | | |
| | | | 85 | | | | | | 90 | | | | | 95 | | | |
| Tyr | Ile | Gly | Ala | Thr | Ile | Leu | Arg | Val | Pro | Ser | Thr | Lys | Gly | Ile | His | | |
| | | | 100 | | | | | 105 | | | | | 110 | | | | |
| Lys | Ala | Leu | Ser | Thr | Cys | Gly | Ser | His | Leu | Ser | Val | Val | Ser | Leu | Tyr | | |
| | | 115 | | | | | 120 | | | | | 125 | | | | | |
| Tyr | Gly | Ser | Ile | Phe | Gly | Gln | Tyr | Leu | Phe | Pro | Thr | Val | Ser | Ser | Ser | | |
| | 130 | | | | | 135 | | | | | 140 | | | | | | |
| Ile | Asp | Lys | Asp | Val | Ile | Val | Ala | Leu | Met | Tyr | Thr | Val | Val | Thr | Pro | | |
| 145 | | | | | 150 | | | | | 155 | | | | | 160 | | |
| Met | Leu | | | | | | | | | | | | | | | | |

<210> 2107

<211> 159

<212> PRT

<213> Homo sapien (7211540-1-1-478)

<400> 2107

| | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|
| Val | Ala | Ile | Cys | Asn | Pro | Leu | Arg | Tyr | Leu | Thr | Val | Met | Asn | Pro | Gln | | |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | | | |
| Leu | Cys | Leu | Trp | Leu | Val | Leu | Ala | Cys | Trp | Cys | Gly | Gly | Phe | Ile | His | | |
| | | | 20 | | | | | 25 | | | | | 30 | | | | |
| Ser | Ile | Met | Gln | Val | Ile | Leu | Val | Ile | Gln | Leu | Pro | Phe | Cys | Gly | Pro | | |
| | | 35 | | | | | 40 | | | | | 45 | | | | | |
| Asn | Glu | Leu | Asp | Asn | Phe | Tyr | Cys | Asp | Val | Leu | Gln | Ile | Ile | Lys | Leu | | |
| | 50 | | | | | 55 | | | | | 60 | | | | | | |
| Ala | Cys | Met | Asp | Thr | Tyr | Val | Val | Glu | Val | Leu | Val | Ile | Ala | Asn | Ser | | |
| 65 | | | | | 70 | | | | | 75 | | | | 80 | | | |
| Gly | Leu | Leu | Ser | Leu | Val | Cys | Phe | Leu | Val | Leu | Leu | Phe | Ser | Tyr | Ala | | |
| | | | 85 | | | | | | 90 | | | | | 95 | | | |
| Ile | Ile | Leu | Ile | Thr | Leu | Arg | Thr | Arg | Phe | Cys | Gln | Gly | Gln | Asn | Lys | | |
| | | | 100 | | | | | 105 | | | | | 110 | | | | |
| Val | Leu | Ser | Thr | Cys | Ala | Ser | His | Leu | Thr | Val | Val | Ser | Leu | Ile | Phe | | |
| | | 115 | | | | | 120 | | | | | 125 | | | | | |
| Val | Pro | Cys | Val | Phe | Ile | Tyr | Leu | Arg | Pro | Phe | Cys | Ser | Phe | Ser | Val | | |
| | 130 | | | | | 135 | | | | | 140 | | | | | | |
| Asp | Lys | Ile | Phe | Ser | Leu | Phe | Tyr | Thr | Val | Ile | Thr | Pro | Met | Leu | | | |
| 145 | | | | | 150 | | | | | 155 | | | | | | | |

<210> 2108

<211> 162

<212> PRT

<213> Homo sapien (7211541-1-1-488)

<400> 2108

| | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|
| Met | Ala | Ile | Cys | Lys | Pro | Leu | Leu | Tyr | Gly | Ser | Lys | Met | Thr | Arg | Cys | | |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | | | |
| Val | Cys | Leu | Cys | Leu | Ala | Ala | Ala | Pro | Tyr | Ile | Tyr | Gly | Phe | Ala | Asn | | |
| | | | 20 | | | | | 25 | | | | | 30 | | | | |
| Gly | Leu | Ser | Gln | Thr | Thr | Leu | Met | Leu | Arg | Leu | Ser | Phe | Cys | Gly | Pro | | |
| | | 35 | | | | | 40 | | | | | 45 | | | | | |
| Asn | Asp | Ile | Asn | His | Phe | Tyr | Cys | Ala | Asp | Pro | Pro | Leu | Leu | Val | Leu | | |
| | 50 | | | | | 55 | | | | | 60 | | | | | | |
| Ala | Cys | Ser | Asp | Thr | Tyr | Val | Lys | Glu | Thr | Ala | Met | Leu | Val | Val | Ala | | |
| 65 | | | | | 70 | | | | | 75 | | | | 80 | | | |
| Gly | Ser | Asn | Leu | Ile | Cys | Ser | Leu | Thr | Val | Ile | Leu | Ile | Ser | Tyr | Thr | | |
| | | | | 85 | | | | | 90 | | | | | 95 | | | |

Phe Ile Phe Thr Ala Ile Leu Arg Ile His Thr Ala Glu Gly Arg Arg
 100 105 110
 Lys Ala Phe Ser Thr Cys Gly Ser His Val Thr Ala Val Thr Val Phe
 115 120 125
 Tyr Gly Thr Leu Phe Cys Met Tyr Leu Arg Pro Pro Ser Glu Thr Ser
 130 135 140
 Ile Gln Gln Gly Lys Ile Val Ala Val Phe Tyr Ile Phe Val Ser Pro
 145 150 155 160
 Met Leu

<210> 2109
 <211> 162
 <212> PRT
 <213> Homo sapien (7211542-1-1-487)

<400> 2109
 Val Ala Ile Cys Lys Pro Leu His Tyr Thr Ser Ile Met Asn Arg Lys
 1 5 10 15
 Leu Cys Thr Leu Leu Val Leu Cys Ala Trp Leu Ser Gly Phe Leu Thr
 20 25 30
 Ile Phe Pro Pro Leu Met Leu Leu Gln Leu Asp Tyr Cys Ala Ser
 35 40 45
 Asn Val Ile Asp His Phe Ala Cys Asp Tyr Phe Pro Leu Leu Gln Leu
 50 55 60
 Ser Cys Ser Asp Thr Trp Leu Leu Glu Val Ile Gly Phe Tyr Phe Ala
 65 70 75 80
 Leu Val Thr Leu Leu Phe Thr Leu Ala Leu Val Ile Leu Ser Tyr Met
 85 90 95
 Tyr Ile Ile Arg Thr Ile Leu Arg Ile Pro Ser Ala Ser Gln Arg Lys
 100 105 110
 Lys Ala Phe Ser Thr Cys Ser Ser His Met Ile Val Ile Ser Ile Ser
 115 120 125
 Tyr Gly Ser Cys Ile Phe Met Tyr Ala Asn Pro Ser Ala Lys Glu Lys
 130 135 140
 Ala Ser Leu Thr Lys Gly Ile Ala Ile Leu Asn Thr Ser Val Ala Pro
 145 150 155 160
 Met Leu

<210> 2110
 <211> 243
 <212> PRT
 <213> Homo sapien (7230851-8-1-2360)

<220>
 <221> VARIANT
 <222> (1)...(243)
 <223> Xaa = Any Amino Acid

<400> 2110
 Met Gln Ser Glu His Leu Ala Glu Phe Ser Glu Phe Leu Ile Leu Ser
 1 5 10 15
 Leu Ser Glu Ile Gln Asn Cys Ser Pro Phe Phe Gly Leu Phe Leu Ser
 20 25 30
 Met Asn Leu Val Thr Val Leu Gly Asn Leu Leu Ile Ile Leu Ala Ile
 35 40 45
 Ser Ser Asp Ser His Leu His Lys Pro Met Tyr Phe Leu Leu Ser Lys
 50 55 60
 Leu Ser Met Ala Ala Ile Cys Phe Val Phe Thr Met Ile Gln Lys Met
 65 70 75 80

```

Met Val Asn Leu Arg Ala Gln Ser Lys Asp Ile Phe Thr Gln Pro Ser
      85                      90                      95
Gly Ser Pro Ile Pro Phe Xaa Met Cys Ser Leu Ile Arg Phe Leu Leu
      100                    105                    110
Ile Gln Gln Lys Ser Val Val Leu Ile Phe Glu Tyr Ser Leu Val Leu
      115                    120                    125
Ile His Pro Ile Xaa Ile Xaa Arg Cys Lys Leu Ile Ile Leu Leu Tyr
      130                    135                    140
Glu Pro Phe Lys Ile Ile Glu Asp Ser Tyr Val Leu Phe Leu Ile Ile
145      150                    155                    160
Thr Ile Leu Ser Ser His Xaa Leu Ile His Asn Cys Xaa Xaa Val Met
      165                    170                    175
Asp Phe Leu Leu Lys Gln Pro Leu Phe Tyr His Leu Met Leu Leu Val
      180                    185                    190
Met Gln Gln Leu Thr Leu Asn Ala Leu Phe Ile Phe Xaa Thr Xaa Xaa
      195                    200                    205
Leu Leu Leu Thr Ser Leu Xaa Asp Leu Lys Ile Ser Leu Cys Thr Val
      210                    215                    220
Val Ser Gln Xaa Ile Thr Thr Ile Ile Leu Lys Asn Lys Ile Lys Val
225      230                    235                    240
Val Ser Met

```

<210> 2111

<211> 313

<212> PRT

<213> Homo sapien (7239533-11-790-4930)

<220>

<221> VARIANT

<222> (1)...(313)

<223> Xaa = Any Amino Acid

<400> 2111

```

Met Glu Ser Gln Arg Asn Ile Xaa Lys Phe Ile Leu Met Ser Leu Ser
 1      5                      10                      15
Ser Ile Gln Asn Ile Gln Ile Phe Val Phe Val Phe Leu Phe Cys Asn
      20                    25                    30
Val Ala Ile Leu Val Gly Asn Phe Leu Ile Leu Ile Ser Ile Xaa Cys
      35                    40                    45
Ser Pro Leu Phe Asn Gln Pro Met His Tyr Phe Leu Gly Tyr Met Asn
      50                    55                    60
Ile Tyr Tyr Thr Ser Cys Val Thr Pro Lys Ile Ile Gly Asp Leu Val
65      70                    75                    80
Val Gly Arg Ile Asn Ile Ser Tyr Asp Arg Ile Phe Pro Met His Phe
      85                    90                    95
Phe Gly Ile Ile Glu Ile Phe Ile Leu Thr Val Met Ala Phe Asp His
      100                    105                    110
Tyr Val Ala Ile Cys Lys Pro Pro Arg Tyr Leu Ile Ile Met Asn Arg
      115                    120                    125
Thr Lys Tyr Asn Thr Leu Ile Ser Val Ala Trp Leu Leu Gly Leu Ile
      130                    135                    140
His Ser Leu Phe Gln Phe Ser Met Lys Ile Trp Leu Pro Phe Cys Gly
145      150                    155                    160
Ser Asn Lys Ile Asp Asp Xaa Tyr Xaa Asp Ile Phe Pro Leu Leu Lys
      165                    170                    175
Val Ala Cys Thr Asp Thr Cys Ile Thr Gly Val Leu Val Val Ala Asn
      180                    185                    190
Ser Gly Met Phe Ala Leu Val Thr Phe Val Leu Ser Phe Gly Ser Tyr
      195                    200                    205
Val Ile Ile Leu Phe Pro Leu Lys Asn His Ser Val Glu Gly Arg Cys

```

210 215 220
 Lys Ala Leu Ser Thr Cys Gly Ser His Ile Thr Met Val Ile Phe Phe
 225 230 235 240
 Phe Glu Pro Ser Ile Phe Ala Tyr Leu Arg Pro Ser Thr Phe Pro Glu
 245 250 255
 Asp Lys Ile Ser Ala Leu Phe Tyr Thr Ile Ile Ala Pro Met Phe Asn
 260 265 270
 His Leu Ile Tyr Asn Leu Arg Asn Thr Glu Met Lys Lys Ala Met Arg
 275 280 285
 Lys Val Trp Tyr Gln Ile Ser Phe Ser Glu Glu Lys Gln Leu Ile Cys
 290 295 300
 Pro Thr Xaa Cys Thr Lys Glu Leu Tyr
 305 310

<210> 2112
 <211> 311
 <212> PRT
 <213> Homo sapien (7239533-19-11510-15318)

<400> 2112
 Met Gly Lys Glu Asn Cys Thr Thr Val Ala Glu Phe Ile Leu Leu Gly
 1 5 10 15
 Leu Ser Asp Val Pro Glu Leu Arg Val Cys Leu Phe Leu Leu Phe Leu
 20 25 30
 Leu Ile Tyr Gly Val Thr Leu Leu Ala Asn Leu Gly Met Ile Ala Leu
 35 40 45
 Ile Gln Val Ser Ser Arg Leu His Thr Pro Met Tyr Phe Phe Leu Ser
 50 55 60
 His Leu Ser Ser Val Asp Phe Cys Tyr Ser Ser Ile Ile Val Pro Lys
 65 70 75 80
 Met Leu Ala Asn Ile Phe Asn Lys Asp Lys Ala Ile Ser Phe Leu Gly
 85 90 95
 Cys Met Val Gln Phe Tyr Leu Phe Cys Thr Cys Val Val Thr Glu Val
 100 105 110
 Phe Leu Leu Ala Val Met Ala Tyr Asp Arg Phe Val Ala Ile Cys Asn
 115 120 125
 Pro Leu Leu Tyr Thr Val Thr Met Ser Trp Lys Val Arg Val Glu Leu
 130 135 140
 Ala Ser Cys Cys Tyr Phe Cys Gly Thr Val Cys Ser Leu Ile His Leu
 145 150 155 160
 Cys Leu Ala Leu Arg Ile Pro Phe Tyr Arg Ser Asn Val Ile Asn His
 165 170 175
 Phe Phe Cys Asp Leu Pro Pro Val Leu Ser Leu Ala Cys Ser Asp Ile
 180 185 190
 Thr Val Asn Glu Thr Leu Leu Phe Leu Val Ala Thr Leu Asn Glu Ser
 195 200 205
 Val Thr Ile Met Ile Ile Leu Thr Ser Tyr Leu Leu Ile Leu Thr Thr
 210 215 220
 Ile Leu Lys Met Gly Ser Ala Glu Gly Arg His Lys Ala Phe Ser Thr
 225 230 235 240
 Cys Ala Ser His Leu Thr Ala Ile Thr Val Phe His Gly Thr Val Leu
 245 250 255
 Ser Ile Tyr Cys Arg Pro Ser Ser Gly Asn Ser Gly Asp Ala Asp Lys
 260 265 270
 Val Ala Thr Val Phe Tyr Thr Val Val Ile Pro Met Leu Asn Ser Val
 275 280 285
 Ile Tyr Ser Leu Arg Asn Lys Asp Val Lys Glu Ala Leu Arg Lys Val
 290 295 300
 Met Gly Ser Lys Ile His Ser
 305 310

<210> 2113
 <211> 287
 <212> PRT
 <213> Homo sapien (7239533-20-19626-20657)

<220>
 <221> VARIANT
 <222> (1)...(287)
 <223> Xaa = Any Amino Acid

<400> 2113
 Tyr Ile Leu Leu Asp Ile Tyr Ile Cys Leu Asn Asn Thr His Val Xaa
 1 5 10 15
 Leu Cys Val Glu Ser Gln Arg Gln Phe Lys Ile Ser Phe Tyr Phe Ser
 20 25 30
 Phe Phe Leu Leu Ala Ile Thr Xaa Phe Xaa Xaa Xaa Ile Leu Ile Ile
 35 40 45
 Met Lys Thr Xaa Gln Tyr Phe Leu Lys His Lys His Leu Lys Lys Lys
 50 55 60
 Phe Ser Xaa Cys Leu Val Tyr Ile Leu Thr Tyr Ile Leu Ser Leu Xaa
 65 70 75 80
 Ser Lys Phe Phe Ala Leu Cys Xaa Ile Phe Ala Asp Lys Ala Phe Gln
 85 90 95
 Glu Gln Val Ser Gly Asn Xaa Xaa Ser Arg Ser Xaa Glu Ser Pro Val
 100 105 110
 His Tyr Thr Leu Thr Met Ser Gln Lys Phe Cys Ser Ile His Pro Ala
 115 120 125
 Gly Cys Tyr Asp Gln Gly Ile Xaa Ser Ile Pro Gly His Ser Phe Ser
 130 135 140
 His Cys Ile Ala Tyr Cys Gly His Asn Val Val Asn Ile Phe Xaa Asn
 145 150 155 160
 Lys Tyr Ser Val Ala Ile Ser Asp Ser Cys Ser Ser Ser Trp Ile Ala
 165 170 175
 Asp Phe Cys Leu Phe Val Cys Phe Ala Leu Val Asn Phe Asp Xaa Leu
 180 185 190
 Arg Asn Leu Arg Val Leu Leu Leu Ser Phe His Phe Gln Leu Val Xaa
 195 200 205
 Lys Ala Leu Ser Ala Ser Ala His Gln Pro Ser Pro Pro Ile Ser His
 210 215 220
 Ile Ser Thr Ile Phe Leu Thr Leu Val Pro Asn Ser Lys Asn Ser Gln
 225 230 235 240
 Ala Ile Val Lys Ala His Ser Val Cys Tyr Ala Met Leu Ile Pro Met
 245 250 255
 Leu Asn Ser Gln Thr Cys Ser Met Arg Tyr Lys Asn Val Asn Glu Ser
 260 265 270
 Leu Gln Lys Leu Met Asp Phe Lys Ile Phe Xaa His Xaa Lys Gln
 275 280 285

<210> 2114
 <211> 256
 <212> PRT
 <213> Homo sapien (7239533-8-1261-3491)

<400> 2114
 Met Tyr Phe Phe Leu Ser His Leu Ser Phe Leu Asp Thr Cys Tyr Ser
 1 5 10 15
 Asn Val Phe Thr Pro Lys Leu Leu Glu Ile Leu Val Val Glu Asp Arg
 20 25 30
 Thr Ile Ser Phe Lys Gly Cys Met Val Gln Phe Phe Phe Gly Cys Ala
 35 40 45
 Phe Val Ile Thr Glu Met Phe Met Leu Ala Val Met Ala Tyr Asp Leu

```

      50              55              60
Phe Met Ala Val Cys Asn Pro Leu Leu Tyr Thr Val Ala Met Ser Pro
65              70              75              80
Lys Leu Cys Ala Leu Leu Val Ala Gly Thr Tyr Thr Trp Gly Gly Leu
      85              90              95
Cys Ser Leu Thr Leu Thr Tyr Ser Leu Leu Val Leu Ser Tyr Cys Gly
      100              105              110
Ser Asn Ile Ile Asn His Phe Gly Cys Glu Tyr Ser Ala Ile Leu Ser
      115              120              125
Leu Ser Cys Ser Asp Pro Tyr Phe Asn Gln Met Ala Cys Leu Val Ile
      130              135              140
Ser Ile Phe Ser Glu Ala Cys Ser Leu Leu Ala Ile Leu Ala Phe Tyr
145              150              155              160
Val Phe Ile Val Ala Thr Val Ile Lys Met Leu Ser Thr Gly Gly Pro
      165              170              175
Gln Lys Ala Ile Ser Thr Cys Ala Ser His Leu Thr Thr Val Ser Ile
      180              185              190
Phe His Gly Val Ile Leu Leu Leu Tyr Cys Val Pro Asn Ser Lys Ser
      195              200              205
Ser Trp Leu Leu Val Lys Val Ala Thr Val Leu Phe Thr Val Ile Ile
210              215              220
Pro Met Leu Asn Pro Leu Ile Tyr Ser Leu Arg Asn Lys Asp Val Lys
225              230              235              240
Gly Thr Val Arg Lys Leu Ile Asn Ser Gln Ser Pro Phe His Ser Lys
      245              250              255

```

<210> 2115

<211> 314

<212> PRT

<213> Homo sapien (7239533-9-1-1650)

<400> 2115

```

Met Met Met Val Leu Arg Asn Leu Ser Met Glu Pro Thr Phe Ala Leu
1              5              10              15
Leu Gly Phe Thr Asp Tyr Pro Lys Leu Gln Ile Pro Leu Phe Leu Val
      20              25              30
Phe Leu Leu Met Tyr Val Ile Thr Val Val Gly Asn Leu Gly Met Ile
      35              40              45
Ile Ile Ile Lys Ile Asn Pro Lys Phe His Thr Pro Met Tyr Phe Phe
      50              55              60
Leu Ser His Leu Ser Phe Val Asp Phe Cys Tyr Ser Ser Ile Val Thr
65              70              75              80
Pro Lys Leu Leu Glu Asn Leu Val Met Ala Asp Lys Ser Ile Phe Tyr
      85              90              95
Phe Ser Cys Met Met Gln Tyr Phe Leu Ser Cys Thr Ala Val Val Thr
      100              105              110
Glu Ser Phe Leu Leu Ala Val Met Ala Tyr Asp Arg Phe Val Ala Ile
      115              120              125
Cys Asn Pro Leu Leu Tyr Thr Val Ala Met Ser Gln Arg Leu Cys Ala
      130              135              140
Leu Leu Val Ala Gly Ser Tyr Leu Trp Gly Met Phe Gly Pro Leu Val
145              150              155              160
Leu Leu Cys Tyr Ala Leu Arg Leu Asn Phe Ser Gly Pro Asn Val Ile
      165              170              175
Asn His Phe Phe Cys Glu Tyr Thr Ala Leu Ile Ser Val Ser Gly Ser
      180              185              190
Asp Ile Leu Ile Pro His Leu Leu Phe Ser Phe Ala Thr Phe Asn
      195              200              205
Glu Met Cys Thr Leu Leu Ile Ile Leu Thr Ser Tyr Val Phe Ile Phe
210              215              220
Val Thr Val Leu Lys Ile Arg Ser Val Ser Gly Arg His Lys Ala Phe

```

| | | | | | | |
|---|---------------------|-----------------------------|--|-----|--|-----|
| 225 | | 230 | | 235 | | 240 |
| Ser Thr Trp Ala | Ser His Leu Thr Ala | Ile Thr Ile Phe His Gly Thr | | | | |
| | 245 | 250 | | | | |
| Ile Leu Phe Leu Tyr Cys Val Pro Asn Ser Lys Asn Ser Arg Gln Thr | | 255 | | | | |
| | 260 | 265 | | | | |
| Val Lys Val Ala Ser Val Phe Tyr Thr Val Val Asn Pro Met Leu Asn | | 270 | | | | |
| | 275 | 280 | | | | |
| Pro Pro Ile Tyr Ser Leu Arg Asn Lys Asp Val Lys Asp Ala Phe Trp | | 285 | | | | |
| | 290 | 295 | | | | |
| Lys Leu Ile His Thr Gln Val Pro Phe His | | 300 | | | | |
| 305 | 310 | | | | | |

<210> 2116

<211> 308

<212> PRT

<213> Homo sapien (7239554-20-1-1871)

<400> 2116

| | |
|---|-----|
| Met Met Ser Asn Gln Thr Leu Val Thr Glu Phe Ile Leu Gln Gly Phe | |
| 1 | 5 |
| Ser Glu His Pro Glu Tyr Arg Val Phe Leu Phe Ser Cys Phe Leu Phe | |
| | 20 |
| Leu Tyr Ser Gly Ala Leu Thr Gly Asn Val Leu Ile Thr Leu Ala Ile | |
| | 35 |
| Thr Phe Asn Pro Gly Leu His Ala Pro Met Tyr Phe Phe Leu Leu Asn | |
| | 50 |
| Leu Ala Thr Met Asp Ile Ile Cys Thr Ser Ser Ile Met Pro Lys Ala | |
| 65 | 70 |
| Leu Ala Ser Leu Val Ser Glu Glu Ser Ser Ile Ser Tyr Gly Gly Cys | |
| | 85 |
| Met Ala Gln Leu Tyr Phe Leu Thr Trp Ala Ala Ser Ser Glu Leu Leu | |
| | 100 |
| Leu Leu Thr Val Met Ala Tyr Asp Arg Tyr Ala Ala Ile Cys His Pro | |
| | 115 |
| Leu His Tyr Ser Ser Met Met Ser Lys Val Phe Cys Ser Gly Leu Ala | |
| | 130 |
| Thr Ala Val Trp Leu Leu Cys Ala Val Asn Thr Ala Ile His Thr Gly | |
| 145 | 150 |
| Leu Met Leu Arg Leu Asp Phe Cys Gly Pro Asn Val Ile Ile His Phe | |
| | 165 |
| Phe Cys Glu Val Pro Pro Leu Leu Leu Leu Ser Cys Ser Ser Thr Tyr | |
| | 180 |
| Val Asn Gly Val Met Ile Val Leu Ala Asp Ala Phe Tyr Gly Ile Val | |
| | 195 |
| Asn Phe Leu Met Thr Ile Ala Ser Tyr Gly Phe Ile Val Ser Ser Ile | |
| | 210 |
| Leu Lys Val Lys Thr Ala Trp Gly Arg Gln Lys Ala Phe Ser Thr Cys | |
| 225 | 230 |
| Ser Ser His Leu Thr Val Val Cys Met Tyr Tyr Thr Ala Val Phe Tyr | |
| | 245 |
| Ala Tyr Ile Ser Pro Val Ser Gly Tyr Ser Ala Gly Lys Ser Lys Leu | |
| | 260 |
| Ala Gly Leu Leu Tyr Thr Val Leu Ser Pro Thr Leu Asn Pro Leu Ile | |
| | 275 |
| Tyr Thr Leu Arg Asn Lys Glu Val Lys Ala Ala Leu Arg Lys Leu Phe | |
| | 290 |
| Pro Phe Phe Arg | 295 |
| 305 | 300 |

<210> 2117

<211> 157

<212> PRT

<213> Homo sapien (7239554-9-1-1342)

<220>

<221> VARIANT

<222> (1)...(157)

<223> Xaa = Any Amino Acid

<400> 2117

```

Met Gly Glu Ala Arg Asn Arg Thr Val Val Gln Glu Phe Ile Leu Glu
 1           5           10           15
Gly Phe Pro Ala Val Gln His Leu Gly Asn Val Leu Phe Leu Val His
          20           25           30
Leu Leu Ala Tyr Leu Ala Ser Ile Met Ala Asn Met Leu Ile Ile Thr
          35           40           45
Ile Thr Trp Ala Asp His His Leu Gln Thr Pro Met Tyr Phe Phe Leu
          50           55           60
Ser Ser Phe Ser Phe Cys Glu Cys Cys Phe Ile Thr Thr Val Ile Pro
65           70           75           80
Lys Leu Leu Val Ile Leu Leu Ser Gly Arg Ala Lys Ile Pro Leu Ser
          85           90           95
Thr Thr Leu Ser His Ala Val Pro Phe Ser Phe Leu Tyr Ser Trp Val
          100          105          110
Asn Ser Phe Ser Ser Leu Asn Gly Cys Asp Val Pro Leu Asp Xaa Tyr
          115          120          125
Leu Ala Ile Cys Lys Pro Leu His Tyr Ser Thr Ile Met Ser Leu Arg
          130          135          140
Thr Ser Phe His Lys Val Thr Ala Trp Leu Cys Pro Gly
145           150           155

```

<210> 2118

<211> 129

<212> PRT

<213> Homo sapien (7239558-10-440-1325)

<400> 2118

```

Met Gln Gly Glu Asn Phe Thr Ile Trp Ser Ile Phe Phe Leu Glu Gly
 1           5           10           15
Phe Ser Gln Tyr Pro Gly Leu Glu Val Val Leu Phe Val Phe Ser Leu
          20           25           30
Val Met Tyr Leu Thr Thr Leu Leu Gly Asn Ser Thr Leu Ile Leu Ile
          35           40           45
Thr Ile Leu Asp Ser Arg Leu Lys Thr Pro Met Tyr Leu Phe Leu Gly
          50           55           60
Asn Leu Ser Phe Met Asp Ile Cys Tyr Thr Ser Ala Ser Val Pro Thr
65           70           75           80
Leu Leu Val Asn Leu Leu Ser Ser Gln Lys Thr Ile Ile Phe Ser Gly
          85           90           95
Cys Ala Val Gln Met Tyr Leu Ser Leu Ala Met Gly Ser Thr Glu Cys
          100          105          110
Val Leu Leu Ala Val Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Asn
          115          120          125
Pro

```

<210> 2119

<211> 313

<212> PRT

<213> Homo sapien (7248974-19-1-3170)

<220>

<221> VARIANT

<222> (1)...(313)

<223> Xaa = Any Amino Acid

<400> 2119

```

Met Leu Gly Asn Tyr Ser Ser Ala Thr Glu Phe Phe Leu Leu Gly Phe
 1           5           10           15
Pro Gly Ser Gln Glu Val Arg Arg Ile Leu Phe Val Asn Phe Phe Phe
          20           25           30
Leu Tyr Ala Val Thr Val Met Gly Asn Thr Val Ile Ile Val Thr Val
          35           40           45
Cys Val Asp Lys His Leu Gln Ser Pro Met Tyr Phe Phe Leu Gly His
          50           55           60
Leu Cys Val Leu Glu Ile Leu Ile Thr Ser Thr Ala Ala Pro Phe Met
65           70           75           80
Leu Trp Gly Leu Leu Leu Pro Ser Thr Gln Ile Met Ser Leu Thr Ala
          85           90           95
Cys Ala Ala Gln Leu Leu Tyr Leu Ser Leu Gly Thr Ser Glu Leu Ala
          100          105          110
Leu Met Gly Val Met Ala Val Asp His Tyr Val Ala Val Cys Asn Pro
          115          120          125
Leu Arg Tyr Asn Ile Ile Met Asn Ser Ser Thr Cys Val Trp Met Val
          130          135          140
Ile Val Ser Trp Val Phe Gly Phe Leu Phe Gln Ile Trp Pro Val Tyr
145          150          155          160
Ala Thr Phe Gln Leu Thr Phe Cys Lys Ser Asn Val Leu Asp His Phe
          165          170          175
Tyr Cys Asp Xaa Gly Gln Leu Leu Lys Val Ser Cys Glu Asp Thr Leu
          180          185          190
Phe Thr Glu Phe Ile Leu Phe Leu Met Ala Val Phe Ile Ile Ile Gly
          195          200          205
Ser Leu Ile Pro Thr Ile Val Ser Tyr Thr Tyr Ile Ile Ser Thr Ile
          210          215          220
Leu Lys Ile Pro Leu Ala Ser Gly Trp Arg Lys Ser Phe Ser Thr Cys
225          230          235          240
Ala Ser His Phe Thr Cys Val Val Ile Gly Tyr Ser Ser Cys Leu Phe
          245          250          255
Leu Tyr Thr Lys Pro Lys Gln Thr Gln Ala Ala Lys Tyr Asn Arg Ile
          260          265          270
Ala Ser Leu Leu Val Leu Val Val Thr Pro Phe Leu Asn Pro Phe Ile
          275          280          285
Phe Thr Leu Arg Asn Asp Lys Phe Ile Gln Ala Phe Gly Asp Gly Met
          290          295          300
Lys His Cys Tyr Gln Leu Leu Arg Ile
305           310

```

<210> 2120

<211> 138

<212> PRT

<213> Homo sapien (7248974-26-1-596)

<220>

<221> VARIANT

<222> (1)...(138)

<223> Xaa = Any Amino Acid

<400> 2120

```

Leu Leu Ser Leu Trp Ile Phe Thr Leu Phe Cys Tyr Tyr Val Xaa Tyr
 1           5           10           15
Cys Asp Glu Lys Pro Leu Phe Val Tyr Thr Leu Ile Pro Lys Cys Val
          20           25           30

```

Ser Asp Ile Xaa Gly Met Asn Phe Tyr Lys Cys Asn Cys Trp Val Met
 35 40 45
 Gly Met Ser Asn Phe Asn Ser Phe Tyr Gln Val Phe Ile Glu His Arg
 50 55 60
 Val Phe Ile Val Xaa Pro Ala Val Gly Gly Cys Phe Phe Ile Val Ser
 65 70 75 80
 Asn Ile Val Cys Xaa Xaa Thr Leu Gly Lys Lys Leu Asn Ile Phe Ile
 85 90 95
 Lys Ser Asn Ser His Leu Thr Thr Ile Ser Ile Tyr Gln Arg Gly Gly
 100 105 110
 Met Val Thr Trp Ile Gly His Ser Asn Ser Ser Ser Tyr Gln Xaa Thr
 115 120 125
 Xaa Asp Tyr Ser Leu Leu Tyr Xaa Leu Ile
 130 135

<210> 2121

<211> 161

<212> PRT

<213> Homo sapien (7248974-31-3444-4455)

<220>

<221> VARIANT

<222> (1)...(161)

<223> Xaa = Any Amino Acid

<400> 2121

Ile Cys Gly Ser His Ser Gly Val Thr Glu Phe Cys Leu Leu Gly Phe
 1 5 10 15
 Pro Gly Ser Gln Xaa Val Cys His Leu Leu Pro Ser Ser Phe Val Ser
 20 25 30
 Ile Val Ile Arg Asn Tyr Val Ile Ile Ile Val Cys Val Glu Lys Cys
 35 40 45
 Leu Leu Phe Leu Leu Tyr Leu Phe Tyr Gly Asp Leu Ser Val Met Glu
 50 55 60
 Ile Leu Ile Thr Tyr Thr Ala Val Pro Leu Met Leu Arg Gly Cys Tyr
 65 70 75 80
 Phe Pro Xaa Phe Lys Gln Tyr Leu Xaa Xaa His Val Ser Val Gln Leu
 85 90 95
 Tyr Met Asn Phe Phe Gly Gly Thr Gln Glu Phe Ala Leu Leu Gly Val
 100 105 110
 Met Thr Val Asn His Tyr Val Ala Leu Cys Asn Ser Leu Lys Xaa Asn
 115 120 125
 Ile Ile Met Ser Ser Thr His Cys Ile Trp Leu Val Ile Val Leu Leu
 130 135 140
 Ile Gly Phe Leu Ser Glu Ile Trp Ser Val Tyr Ala Thr Phe Gln Leu
 145 150 155 160
 Pro

<210> 2122

<211> 169

<212> PRT

<213> Homo sapien (7249005-11-1-1318)

<220>

<221> VARIANT

<222> (1)...(169)

<223> Xaa = Any Amino Acid

<400> 2122

Asn Ser Glu Ser Lys His Phe Leu Leu Leu Lys Leu Cys Ser Met Phe

```

1           5           10           15
Ala Val Thr Phe Leu Ser Leu Ile Leu Ser Gly Lys Gly Leu Gln Phe
                20           25           30
Pro Phe Tyr Phe Ser Glu Cys Asn Cys Lys Val Ser Asp Val Phe Thr
                35           40           45
Val Glu Thr Arg Glu Gln Glu Ala Pro Met Lys Thr Thr Gly Phe Tyr
                50           55           60
Gly Gly Ile Met Val Trp Xaa Val Glu Ala Cys Tyr Ser Ser Cys Ile
65           70           75           80
Ser Leu Gly Ser Asn Pro Asp Tyr Thr Ala Tyr Gly Ala Leu Thr Ala
                85           90           95
Arg Xaa Pro Gln Glu Phe Leu Cys Trp Xaa Asn Arg Phe Ile Ile Met
                100           105           110
Pro Val Asn Leu Lys Met Leu Xaa Val Lys Thr Ile Trp Cys Phe Ser
                115           120           125
Arg Thr Gln Xaa Ser Leu Thr Val Ile Thr Ile Phe Pro Leu Pro Thr
130           135           140
Phe Asn Lys Xaa Ile Ile Tyr Ile Tyr Xaa Thr Lys Glu Ile Xaa Ser
145           150           155           160
Cys Phe Ser Glu Thr Thr Gln Phe Tyr
                165

```

<210> 2123
 <211> 110
 <212> PRT
 <213> Homo sapien (7249007-9-15200-16107)

<220>
 <221> VARIANT
 <222> (1)...(110)
 <223> Xaa = Any Amino Acid

```

<400> 2123
Ser His Thr Glu Pro Gln Asn Leu Thr Gly Val Ser Glu Phe Leu Leu
1           5           10           15
Leu Gly Leu Ser Glu Asp Pro Glu Leu Gln Pro Val Leu Ala Trp Leu
                20           25           30
Ser Leu Ser Ile Tyr Leu Val Thr Val Leu Gly Asn Leu Leu Ile Ile
                35           40           45
Leu Ala Val Ser Ser Asp Ser His Leu His Thr Pro Ile Tyr Phe Phe
                50           55           60
Leu Phe Asn Leu Ser Leu Ala Asp Ile Gly Phe Thr Ser Ala Met Val
65           70           75           80
Pro Lys Met Ile Val Asp Met Gln Ser His Ser Arg Val Ile Ser Tyr
                85           90           95
Ala Gly Cys Leu Thr Xaa Met Ser Phe Phe Val Leu Phe Phe
                100           105           110

```

<210> 2124
 <211> 241
 <212> PRT
 <213> Homo sapien (7249007-9-22951-24848)

<220>
 <221> VARIANT
 <222> (1)...(241)
 <223> Xaa = Any Amino Acid

```

<400> 2124
Leu Arg Gln Leu His Asn Leu Phe Leu Pro Val Gly Phe Phe Leu Ser
1           5           10           15

```

Ser Tyr Ser Phe Xaa Val Ile Trp His Asn Leu Asn Ser Val Thr Lys
 20 25 30
 Phe Ser Ser Lys Thr Asp Glu Ser Lys Leu Lys Ser Xaa Cys Lys Val
 35 40 45
 Lys Ser Leu Phe Phe Thr Tyr Ala Gly Cys Cys Glu Lys Leu Leu Leu
 50 55 60
 Ala Val Glu Lys Arg Asp Arg Ser Phe Leu Phe Ile His Phe Leu Leu
 65 70 75 80
 His Xaa Ser Thr Ala Val Ser Asp His Ala Lys Val Glu Pro Gly Val
 85 90 95
 Gly Arg Arg Glu Arg Gly Xaa Gly Lys Ser His Xaa Leu Thr Leu Lys
 100 105 110
 Xaa Asp Gly Phe Thr Phe Ser Gly Pro Gly Gln Cys Leu Leu Phe Leu
 115 120 125
 Thr His Ile Lys Pro Leu Xaa Met His Leu Thr Met Gly Ala Ser Pro
 130 135 140
 Leu Pro Glu Val Arg Pro Pro Asp Phe Phe Gln Phe Pro Val Val Pro
 145 150 155 160
 His Asn Pro His Ser Trp Thr Phe Thr Gln Tyr Val Arg Leu Pro Ser
 165 170 175
 Trp Val Gln Ser Leu Ser Lys Gln Leu Thr His Phe Ser Phe His Gly
 180 185 190
 Gln Ser Phe Lys Ser Ala Tyr Ile Xaa Leu Ala Ile Ser Gly Ala Val
 195 200 205
 Thr Pro Ile Leu Leu Gln Arg Pro Arg Gly Gln Ser Ser Val Ala Val
 210 215 220
 Xaa His Ile Pro Asp Asp Arg Ile His Thr Leu Lys Pro Leu Ser Gly
 225 230 235 240
 Pro

<210> 2125

<211> 318

<212> PRT

<213> Homo sapien (7249162-23-8972-11111)

<220>

<221> VARIANT

<222> (1)...(318)

<223> Xaa = Any Amino Acid

<400> 2125

Met Thr Thr His Asn Ser Thr Gly Ser Ser His Ser Leu Phe Ile Leu
 1 5 10 15
 Leu Ser Ile Pro Gly Leu Glu Asp Gln His Thr Trp Met Ser Leu Pro
 20 25 30
 Phe Phe Ile Ser Tyr Leu Val Ala Phe Leu Gly Asn Ser Leu Ile Ile
 35 40 45
 Phe Ile Ile Ile Thr Glu Cys Ser Leu His Glu Pro Met Tyr Leu Phe
 50 55 60
 Leu Cys Met Leu Ala Val Ala Asp Leu Ile Leu Ser Thr Thr Thr Val
 65 70 75 80
 Pro Lys Ala Leu Ala Ile Phe Trp Phe Tyr Ala Gly Ala Ile Ser Leu
 85 90 95
 Gly Gly Cys Val Thr Gln Ile Phe Phe Ile His Ala Thr Phe Ile Glu
 100 105 110
 Glu Ser Gly Ile Leu Leu Ala Met Ala Leu Asp Arg Tyr Val Ala Ile
 115 120 125
 Cys Asp Pro Leu His Tyr Thr Thr Val Leu Ser Arg Ala Lys Ile Thr
 130 135 140
 Lys Ile Gly Leu Ala Val Val Leu Arg Ser Phe Cys Val Ile Met Pro

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 145 | | | | 150 | | | | | 155 | | | | | 160 | |
| Asp | Val | Phe | Leu | Val | Lys | Arg | Leu | Pro | Phe | Cys | His | Ser | Asn | Leu | Leu |
| | | | | 165 | | | | | 170 | | | | | 175 | |
| Pro | His | Thr | Tyr | Cys | Glu | His | Met | Ala | Val | Ala | Lys | Phe | Ala | Cys | Ala |
| | | | 180 | | | | | 185 | | | | | 190 | | |
| Asp | Ile | His | Val | Asn | Val | Trp | Tyr | Gly | Leu | Ser | Val | Leu | Leu | Tyr | Thr |
| | | 195 | | | | 200 | | | | | 205 | | | | |
| Val | Val | Leu | Asp | Ala | Leu | Leu | Ile | Leu | Val | Ser | Xaa | Ser | Phe | Ile | Leu |
| | 210 | | | | 215 | | | | | 220 | | | | | |
| Tyr | Thr | Gly | Phe | His | Leu | Pro | Ser | Pro | Gly | Ala | Arg | Gln | Lys | Ala | Leu |
| 225 | | | | 230 | | | | | | 235 | | | | 240 | |
| Gly | Thr | Cys | Gly | Ser | Pro | Leu | Arg | Val | Ile | Ser | Met | Phe | Tyr | Leu | Pro |
| | | | 245 | | | | | 250 | | | | | 255 | | |
| Gly | Ile | Phe | Thr | Ile | Ile | Thr | Gln | Arg | Phe | Gly | His | His | Val | Pro | Phe |
| | | 260 | | | | 265 | | | | | | | 270 | | |
| His | Thr | His | Ile | Leu | Leu | Gly | Asn | Val | Trp | Val | Leu | Ala | Pro | Pro | Met |
| | | 275 | | | | 280 | | | | | 285 | | | | |
| Leu | Asn | Pro | Ile | Ile | Tyr | Gly | Ile | Asn | Thr | Arg | Gln | Ile | Gln | Glu | Cys |
| | 290 | | | 295 | | | | | | 300 | | | | | |
| Val | Leu | Ser | Leu | Leu | Ser | Ser | Gln | Arg | Lys | Xaa | Cys | Xaa | Ile | | |
| 305 | | | | 310 | | | | | | 315 | | | | | |

<210> 2126

<211> 322

<212> PRT

<213> Homo sapien (7249220-22-20773-24242)

<220>

<221> VARIANT

<222> (1)...(322)

<223> Xaa = Any Amino Acid

<400> 2126

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Ser | Val | Val | Glu | Ala | Asn | Asn | Ile | Ser | Gly | Pro | Val | Ser | Glu | Phe |
| 1 | | | | 5 | | | | 10 | | | | | | 15 | |
| Ile | Leu | Leu | Gly | Phe | Pro | Cys | Arg | Cys | Arg | Glu | Thr | Lys | Ile | Leu | Leu |
| | | 20 | | | | | 25 | | | | | 30 | | | |
| Phe | Val | Val | Phe | Ser | Leu | Ile | Tyr | Leu | Leu | Thr | Leu | Met | Gly | Asn | Thr |
| | | 35 | | | | 40 | | | | | 45 | | | | |
| Ser | Ile | Ile | Cys | Ala | Val | Trp | Ser | Ser | Gln | Lys | Leu | His | Thr | Pro | Met |
| | 50 | | | | 55 | | | | 60 | | | | | | |
| Tyr | Ile | Leu | Leu | Ala | Asn | Phe | Ser | Phe | Leu | Glu | Ile | Cys | Cys | Ile | Ser |
| 65 | | | | 70 | | | | 75 | | | | | | 80 | |
| Ser | Asp | Val | Pro | Asn | Met | Leu | Ala | Asn | Leu | Ile | Ser | His | Ile | Lys | Ser |
| | | | 85 | | | | | 90 | | | | | 95 | | |
| Ile | Ser | Tyr | Ala | Gly | Cys | Leu | Leu | Gln | Phe | Phe | Tyr | Phe | Ser | Met | Cys |
| | | 100 | | | | | 105 | | | | | 110 | | | |
| Ala | Ala | Glu | Gly | Tyr | Phe | Leu | Ser | Val | Met | Ser | Phe | Asp | Arg | Phe | Leu |
| | | 115 | | | | | 120 | | | | | 125 | | | |
| Thr | Ile | Cys | Arg | Pro | Leu | His | Tyr | Pro | Thr | Val | Met | Thr | His | His | Leu |
| | 130 | | | | 135 | | | | | 140 | | | | | |
| Cys | Val | Xaa | Leu | Val | Ala | Phe | Cys | Arg | Ala | Gly | Gly | Phe | Leu | Ser | Ile |
| 145 | | | | 150 | | | | | 155 | | | | | 160 | |
| Leu | Met | Pro | Ala | Val | Leu | Met | Ser | Arg | Val | Pro | Phe | Cys | Gly | Pro | Asn |
| | | | 165 | | | | | 170 | | | | | 175 | | |
| Ile | Thr | Asp | His | Phe | Phe | Cys | Asn | Leu | Gly | Pro | Leu | Leu | Ala | Leu | Ser |
| | | 180 | | | | | 185 | | | | | | 190 | | |
| Cys | Ala | Pro | Val | Pro | Lys | Thr | Thr | Leu | Thr | Cys | Ala | Thr | Val | Ser | Ser |
| | | 195 | | | | 200 | | | | | | 205 | | | |
| Leu | Ile | Ile | Phe | Ile | Thr | Phe | Leu | Tyr | Ile | Leu | Gly | Ser | His | Ile | Leu |
| | 210 | | | | 215 | | | | | | 220 | | | | |

Val Leu Arg Ala Val Leu Trp Val Pro Ala Gly Ser Gly Arg Asn Lys
 225 230 235 240
 Ala Phe Ser Thr Cys Ala Ser His Phe Leu Val Val Ser Phe Phe Tyr
 245 250 255
 Gly Ser Val Met Val Met Tyr Val Ser Pro Gly Ser Arg Ser Arg Pro
 260 265 270
 Gly Thr Gln Lys Phe Val Thr Leu Phe Tyr Cys Thr Ala Thr Pro Phe
 275 280 285
 Phe Asn Pro Leu Thr Tyr Ser Leu Trp Asn Lys Asp Met Thr Asp Ala
 290 295 300
 Leu Lys Lys Val Leu Gly Val Pro Ser Lys Glu Ile Ser Trp Asn Thr
 305 310 315 320
 Leu Lys

<210> 2127

<211> 311

<212> PRT

<213> Homo sapien (7249282-10-14985-16332)

<400> 2127

Met Gly Arg Arg Asn Asn Thr Asn Val Pro Asp Phe Ile Leu Thr Gly
 1 5 10 15
 Leu Ser Asp Ser Glu Glu Val Gln Met Ala Leu Phe Ile Leu Phe Leu
 20 25 30
 Leu Ile Tyr Leu Ile Thr Met Leu Gly Asn Val Gly Met Ile Leu Ile
 35 40 45
 Ile Arg Leu Asp Leu Gln Leu His Thr Pro Met Tyr Phe Phe Leu Thr
 50 55 60
 His Leu Ser Phe Ile Asp Leu Ser Tyr Ser Thr Val Ile Thr Pro Lys
 65 70 75 80
 Thr Leu Ala Asn Leu Leu Thr Ser Asn Tyr Ile Ser Phe Met Gly Cys
 85 90 95
 Phe Ala Gln Met Phe Phe Phe Val Phe Leu Gly Ala Ala Glu Cys Phe
 100 105 110
 Leu Leu Ser Ser Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Ser Pro
 115 120 125
 Leu Arg Tyr Pro Val Ile Met Ser Lys Arg Leu Cys Cys Ala Leu Val
 130 135 140
 Thr Gly Pro Tyr Val Ile Ser Phe Ile Asn Ser Phe Val Asn Val Val
 145 150 155 160
 Trp Met Ser Arg Leu His Phe Cys Asp Ser Asn Val Val Arg His Phe
 165 170 175
 Phe Cys Asp Thr Ser Pro Ile Leu Ala Leu Ser Cys Met Asp Thr Tyr
 180 185 190
 Asp Ile Glu Ile Met Ile His Ile Leu Ala Gly Ser Thr Leu Met Val
 195 200 205
 Ser Leu Ile Thr Ile Ser Ala Ser Tyr Val Ser Ile Leu Ser Thr Ile
 210 215 220
 Leu Lys Ile Asn Ser Thr Ser Gly Lys Gln Lys Ala Leu Ser Thr Cys
 225 230 235 240
 Ala Ser His Leu Leu Gly Val Thr Ile Phe Tyr Gly Thr Met Ile Phe
 245 250 255
 Thr Tyr Leu Lys Pro Arg Lys Ser Tyr Ser Leu Gly Arg Asp Gln Val
 260 265 270
 Ala Ser Val Phe Tyr Thr Ile Val Ile Pro Met Leu Asn Pro Leu Ile
 275 280 285
 Tyr Ser Leu Arg Asn Lys Glu Val Lys Asn Ala Leu Ile Arg Val Met
 290 295 300
 Gln Arg Arg Gln Asp Ser Arg
 305 310

<210> 2128
 <211> 306
 <212> PRT
 <213> Homo sapien (7249282-10-21300-24858)

<220>
 <221> VARIANT
 <222> (1)...(306)
 <223> Xaa = Any Amino Acid

<400> 2128
 Thr Ala Gly Ser Asn Phe Thr Glu Val Thr Val Phe Ile Leu Ser Gly
 1 5 10 15
 Tyr Ala Asn His Pro Glu Leu Gln Val Ser Phe Phe Leu Met Phe Leu
 20 25 30
 Phe Ile Tyr Leu Phe Thr Ile Leu Gly Asn Leu Gly Leu Ile Met Leu
 35 40 45
 Ile Arg Met Asp Ser Gln Leu His Thr Pro Met Tyr Phe Phe Leu Ser
 50 55 60
 Asn Leu Ala Phe Ile Asp Ile Phe Tyr Ser Ser Val Thr Pro Lys
 65 70 75 80
 Thr Leu Ala Asn Phe Gln Ser Asn Gln Arg Ser Ile Ser Phe Val Gly
 85 90 95
 Cys Phe Val Gln Met Tyr Phe Ser Val Gly Leu Val Cys Thr Glu Cys
 100 105 110
 Phe Leu Leu Gly Ser Met Ala Tyr Asp Cys Tyr Val Ala Ile Trp Asn
 115 120 125
 Pro Tyr Ser Val Val Ile Ser Xaa Lys Ala Cys Asn Trp Leu Gly Val
 130 135 140
 Met Ser Tyr Thr Ile Gly Phe Thr Asn Ser Leu Val Ser Val Trp Val
 145 150 155 160
 Ile Ser Gly Leu Phe Cys Asp Ser Ser Ile Asn Phe Phe Phe Cys Asp
 165 170 175
 Thr Thr Ala Leu Leu Ala Leu Ser Cys Val Asp Ala Phe Ser Thr Glu
 180 185 190
 Met Val Ser Phe Ala Leu Ala Gly Phe Thr Leu Leu Gly Ser Ile Leu
 195 200 205
 Ile Ile Thr Val Thr Tyr Ile Ala Ile Thr Ser Ala Ile Leu Lys Asn
 210 215 220
 Gln Trp Ala Ala Gly Trp Gln Lys Ala Phe Ser Thr Cys Ala Phe His
 225 230 235 240
 Leu Met Ala Leu Thr Ile Phe Tyr Gly Ser Leu Ile Phe Thr Tyr Leu
 245 250 255
 Gln Leu Asp Lys Thr Ser Ser Leu Ile His Ala Gln Leu Ala Phe Val
 260 265 270
 Phe Tyr Met Thr Val Ile Pro Met Leu Asn Pro Leu Ile Xaa Ser Leu
 275 280 285
 Arg Asn Lys Asp Val Lys Asn Ala Leu Leu Arg Val Ile His Arg Lys
 290 295 300
 Leu Phe
 305

<210> 2129
 <211> 327
 <212> PRT
 <213> Homo sapien (7249282-10-488-2060)

<220>
 <221> VARIANT
 <222> (1)...(327)

<223> Xaa = Any Amino Acid

<400> 2129

Lys Leu Gln Leu Asn Asn Phe Thr Glu Val Thr Met Phe Ile Leu Ile
 1 5 10 15
 Ser Phe Thr Glu Glu Phe Asp Val Gln Val Phe Leu Phe Leu Leu Phe
 20 25 30
 Leu Ala Ile Tyr Leu Phe Thr Leu Ile Gly Asn Leu Gly Leu Val Val
 35 40 45
 Pro Ile Ile Gly Asp Phe Trp Leu His Ser Pro Met Tyr Tyr Phe Leu
 50 55 60
 Gly Val Leu Ser Phe Leu Asp Val Cys Tyr Ser Thr Val Val Thr Pro
 65 70 75 80
 Lys Met Leu Val Asn Phe Leu Ala Lys Asn Lys Ser Ile Ser Phe Leu
 85 90 95
 Gly Cys Ala Thr Gln Met Phe Leu Ala Cys Thr Phe Gly Thr Thr Glu
 100 105 110
 Cys Phe Leu Leu Ala Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile Tyr
 115 120 125
 Asn Pro Leu Leu Tyr Ser Val Ser Met Ser Pro Arg Val Tyr Val Pro
 130 135 140
 Leu Ile Thr Ala Ser Tyr Val Ala Ser Ile Leu His Ala Thr Ile His
 145 150 155 160
 Thr Val Ala Thr Phe Ser Leu Ser Phe Cys Gly Ser Asn Glu Ile Arg
 165 170 175
 His Val Phe Cys Asn Met Pro Pro Leu Leu Ala Ile Ser Cys Ser Asp
 180 185 190
 Thr His Val Ile Gln Leu Leu Phe Phe Tyr Phe Val Gly Ser Ile Glu
 195 200 205
 Ile Val Thr Ile Leu Ile Val Leu Ile Ser Tyr Gly Phe Ile Leu Leu
 210 215 220
 Ala Ile Leu Lys Met Gln Ser Ala Glu Gly Arg Arg Lys Val Phe Ser
 225 230 235 240
 Thr Cys Gly Ala His Leu Thr Gly Val Thr Ile Tyr His Gly Thr Ile
 245 250 255
 Leu Phe Met Tyr Val Arg Pro Ser Ser Ser Tyr Thr Ser Asp Asn Asp
 260 265 270
 Met Ile Val Ser Ile Phe Tyr Thr Ile Val Ile Pro Met Leu Asn Pro
 275 280 285
 Ile Ile Tyr Ser Leu Arg Asn Lys Asp Val Lys Glu Ala Ile Lys Arg
 290 295 300
 Leu Leu Val Arg Asn Trp Phe Ile Asn Lys Leu Xaa Phe Xaa Asn Xaa
 305 310 315 320
 Val Lys Leu Gln Ile Ile Leu
 325

<210> 2130

<211> 319

<212> PRT

<213> Homo sapien (7249282-11-14537-16718)

<400> 2130

Met Asn His Val Val Lys His Asn His Thr Ala Val Thr Lys Val Thr
 1 5 10 15
 Glu Phe Ile Leu Met Gly Ile Thr Asp Asn Pro Gly Leu Gln Ala Pro
 20 25 30
 Leu Phe Gly Leu Phe Leu Ile Ile Tyr Leu Val Thr Val Ile Gly Asn
 35 40 45
 Leu Gly Met Val Ile Leu Thr Tyr Leu Asp Ser Lys Leu His Thr Pro
 50 55 60
 Met Tyr Phe Phe Leu Arg His Leu Ser Ile Thr Asp Leu Gly Tyr Ser

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 65 | | | | | 70 | | | | 75 | | | | 80 | | |
| Thr | Val | Ile | Ala | Pro | Lys | Met | Leu | Val | Asn | Phe | Ile | Val | His | Lys | Asn |
| | | | | 85 | | | | | 90 | | | | | 95 | |
| Thr | Ile | Ser | Tyr | Asn | Trp | Tyr | Ala | Thr | Gln | Leu | Ala | Phe | Phe | Glu | Ile |
| | | | 100 | | | | | 105 | | | | | 110 | | |
| Phe | Ile | Ile | Ser | Glu | Leu | Phe | Ile | Leu | Ser | Ala | Met | Ala | Tyr | Asp | Arg |
| | | 115 | | | | | 120 | | | | 125 | | | | |
| Tyr | Val | Ala | Ile | Cys | Lys | Pro | Leu | Leu | Tyr | Val | Ile | Ile | Met | Ala | Glu |
| | 130 | | | | 135 | | | | | 140 | | | | | |
| Lys | Val | Leu | Trp | Val | Leu | Val | Ile | Val | Pro | Tyr | Leu | Tyr | Ser | Thr | Phe |
| 145 | | | | | 150 | | | | 155 | | | | | | 160 |
| Val | Ser | Leu | Phe | Leu | Thr | Ile | Lys | Leu | Phe | Lys | Leu | Ser | Phe | Cys | Gly |
| | | | 165 | | | | | 170 | | | | | | 175 | |
| Ser | Asn | Ile | Ile | Ser | Tyr | Phe | Tyr | Cys | Asp | Cys | Ile | Pro | Leu | Met | Ser |
| | | 180 | | | | | 185 | | | | | 190 | | | |
| Ile | Leu | Cys | Ser | Asp | Thr | Asn | Glu | Leu | Glu | Leu | Ile | Ile | Leu | Ile | Phe |
| | 195 | | | | | 200 | | | | | 205 | | | | |
| Ser | Gly | Cys | Asn | Leu | Leu | Phe | Ser | Leu | Ser | Ile | Val | Leu | Ile | Ser | Tyr |
| | 210 | | | | 215 | | | | | 220 | | | | | |
| Met | Phe | Ile | Leu | Val | Ala | Ile | Leu | Arg | Met | Asn | Ser | Arg | Lys | Gly | Arg |
| 225 | | | | | 230 | | | | 235 | | | | | | 240 |
| Tyr | Lys | Ala | Phe | Ser | Thr | Cys | Ser | Ser | His | Leu | Thr | Val | Val | Ile | Met |
| | | | 245 | | | | | 250 | | | | | | 255 | |
| Phe | Tyr | Gly | Thr | Leu | Leu | Phe | Ile | Tyr | Leu | Gln | Pro | Lys | Ser | Ser | His |
| | | 260 | | | | 265 | | | | | | | 270 | | |
| Thr | Leu | Ala | Ile | Asp | Lys | Met | Ala | Ser | Val | Phe | Tyr | Thr | Leu | Leu | Ile |
| | 275 | | | | | 280 | | | | | 285 | | | | |
| Pro | Met | Leu | Asn | Pro | Leu | Ile | Tyr | Ser | Leu | Arg | Asn | Lys | Glu | Val | Lys |
| | 290 | | | | 295 | | | | | 300 | | | | | |
| Asp | Ala | Leu | Lys | Arg | Thr | Leu | Thr | Asn | Arg | Phe | Lys | Ile | Pro | Ile | |
| 305 | | | | 310 | | | | | 315 | | | | | | |

<210> 2131

<211> 317

<212> PRT

<213> Homo sapien (7249282-11-25530-27263)

<220>

<221> VARIANT

<222> (1)...(317)

<223> Xaa = Any Amino Acid

<400> 2131

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Gly | Gln | Lys | Asn | Leu | Thr | Val | Leu | Thr | Glu | Leu | Ile | Leu | Met | Glu |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |
| Ile | Thr | Arg | Arg | Leu | Glu | Leu | Gln | Leu | Ser | Leu | Phe | Trp | Val | Phe | Leu |
| | | | 20 | | | | | 25 | | | | | 30 | | |
| Ile | Ile | Cys | Thr | Phe | Thr | Val | Val | Ser | Lys | Glu | Cys | Ile | Ile | Ile | Leu |
| | | 35 | | | | 40 | | | | | 45 | | | | |
| Asn | Asn | Val | Asp | Leu | Gly | Leu | Gln | Thr | Phe | Val | Tyr | Phe | Leu | Ile | Arg |
| | 50 | | | | 55 | | | | | 60 | | | | | |
| Tyr | Leu | Asn | Phe | Ile | Asn | Leu | Gly | Asn | Ser | Met | Val | Ile | Tyr | Pro | Lys |
| 65 | | | | 70 | | | | 75 | | | | | | 80 | |
| Ile | Leu | Val | Asn | Phe | Val | Val | Ala | Gln | Asn | Ala | Ile | Pro | Cys | Tyr | Ala |
| | | | 85 | | | | | 90 | | | | | | 95 | |
| Cys | Thr | Met | Gln | Met | Ala | Phe | Phe | Ile | Met | Phe | Ile | Ile | Cys | Glu | Leu |
| | | 100 | | | | | 105 | | | | | 110 | | | |
| Phe | Val | Ser | Ser | Ala | Met | Ala | Tyr | Asp | His | Tyr | Val | Asp | Ile | His | Ser |
| | | 115 | | | | | 120 | | | | | 125 | | | |
| Leu | Leu | Pro | Xaa | Asn | Val | Met | Ser | Gln | Glu | Leu | Cys | His | Val | Leu | Val |
| | 130 | | | | | 135 | | | | | 140 | | | | |

Ala Ile Pro Tyr Leu Tyr Ser Thr Phe Gln Ala Leu Met Val Thr Ile
 145 150 155 160
 Lys Ile Phe Ile Leu Ala Phe Tyr Gly Ser Asn Val Ile Ser Tyr Phe
 165 170 175
 Tyr Cys Xaa Asp Val Ser Leu Leu Ala Met Val Asp Ser Asn Ala Xaa
 180 185 190
 Gly Ile Glu Met Leu Ile Thr Leu Phe Ser Val Leu Asn Leu Ile Phe
 195 200 205
 Phe Leu Leu Val Val Leu Met Ser Ser Met Leu Ile Leu Leu Thr Val
 210 215 220
 Cys Xaa Met His Ser Ala Gly Glu Gln Xaa Lys Thr Phe Phe Thr Tyr
 225 230 235 240
 Val Ser Cys Leu Ile Val Val Val Val Phe Cys Gly Phe Leu Tyr Phe
 245 250 255
 Met Tyr Leu Gln Leu Lys Phe Ser Ser Phe Phe Phe Asp Asn Asn Lys
 260 265 270
 Met Thr Ser Met Phe Ser Ser Leu Val Ile Thr Met Leu Tyr His Leu
 275 280 285
 Val Cys Ser Val Lys Asn Lys Gly Ser Lys Lys Asn Ala Phe Tyr Ser
 290 295 300
 Phe Phe Met Lys Gln Xaa Lys Leu Cys Asn Leu Met Val
 305 310 315

<210> 2132

<211> 318

<212> PRT

<213> Homo sapien (7249282-5-5312-7865)

<220>

<221> VARIANT

<222> (1)...(318)

<223> Xaa = Any Amino Acid

<400> 2132

Met Lys Pro Thr Ile Gln Met Ala Ser Gly Asn Leu Thr Trp Val Thr
 1 5 10 15
 Glu Phe Ile Leu Val Gly Val Ser Asp Asp Pro Glu Leu Gln Ile Pro
 20 25 30
 Leu Phe Leu Val Phe Leu Val Leu Tyr Leu Leu Thr Val Ala Gly Asn
 35 40 45
 Leu Gly Ile Ile Thr Leu Thr Ser Val Asp Pro Gln Leu Gln Thr Pro
 50 55 60
 Met Tyr Phe Phe Leu Xaa His Leu Ala Ile Ile Asn Leu Cys Asn Ser
 65 70 75 80
 Thr Val Val Ala Pro Lys Met Leu Val Asn Phe Leu Val Thr Lys Lys
 85 90 95
 Thr Ile Ser Tyr Tyr Gly Cys Ala Ala Gln Leu Gly Gly Phe Leu Val
 100 105 110
 Phe Ile Val Ala Glu Ile Phe Thr Leu Ala Ala Met Ala Tyr Asp Arg
 115 120 125
 Tyr Val Ala Ile Trp Ser Pro Leu Leu Tyr Ala Val Val Val Ser Pro
 130 135 140
 Lys Val Cys Arg Leu Leu Val Ser Leu Thr Tyr Leu Gln Ser Leu Ile
 145 150 155 160
 Thr Ala Leu Thr Val Ser Ser Cys Val Phe Ser Val Ser Tyr Cys Ser
 165 170 175
 Ser Asn Ile Ile Asn His Phe Tyr Cys Asp Asp Val Pro Leu Leu Ala
 180 185 190
 Leu Ser Cys Ser Asp Thr Tyr Ile Pro Glu Thr Ala Val Phe Ile Phe
 195 200 205
 Ser Gly Thr Asn Leu Leu Phe Ser Met Ile Val Val Leu Ile Ser Tyr

| | | |
|-------------------------|---------------------|---------------------|
| 210 | 215 | 220 |
| Phe Asn Ile Val Ile Thr | Ile Leu Arg Ile Arg | Ser Ser Glu Gly Arg |
| 225 | 230 | 235 |
| Gln Lys Ala Phe Ser Thr | Cys Ala Ser His Met | Ile Ala Val Val Val |
| 245 | 250 | 255 |
| Phe Tyr Gly Thr Leu Leu | Phe Met Tyr Leu Gln | Pro Arg Ser Asn His |
| 260 | 265 | 270 |
| Ser Leu Asp Thr Asp Lys | Met Ala Ser Val Phe | Tyr Thr Leu Val Ile |
| 275 | 280 | 285 |
| Pro Val Leu Asn Pro Leu | Ile Tyr Ser Leu Arg | Asn Lys Asn Val Lys |
| 290 | 295 | 300 |
| Asp Ala Leu Lys Arg Phe | Leu Asp Asn Pro Cys | Arg Ser Leu |
| 305 | 310 | 315 |

<210> 2133

<211> 279

<212> PRT

<213> Homo sapien (7264174-61-26274-29247)

<220>

<221> VARIANT

<222> (1)...(279)

<223> Xaa = Any Amino Acid

<400> 2133

| | |
|---|--|
| Leu Pro Pro Leu Phe Phe Arg Val Phe Val Ile Leu Phe Val Ser Leu | |
| 1 5 10 15 | |
| Leu Phe Val Lys Leu Cys Ile Leu Phe Leu Ile Ile Leu Leu Val Lys | |
| 20 25 30 | |
| Phe Leu Leu Lys Thr Lys Ile Ala Met Thr Tyr Phe Thr Tyr Leu Ser | |
| 35 40 45 | |
| Asn Tyr Lys Leu Lys Ala Xaa Asn Ser Ile Asp Phe His Ile His Met | |
| 50 55 60 | |
| Phe Val Tyr Val Tyr Ile Met Asn Lys Leu Val His Leu Lys Tyr Glu | |
| 65 70 75 80 | |
| Thr Leu Thr Ser Leu Pro Phe Phe Trp Asn Ser Leu Gly Cys Leu Asp | |
| 85 90 95 | |
| Thr Ser Xaa Phe Cys Phe Thr Phe Tyr Val Thr Tyr Ser Ser Leu Ile | |
| 100 105 110 | |
| Val Ile Asn Met Leu Tyr Phe Leu Ala Val Leu Ala Lys Ser Ser Phe | |
| 115 120 125 | |
| Ile Leu Cys Phe Asn Ser Leu Ser Val Asn Cys Asp Thr Phe Cys Val | |
| 130 135 140 | |
| Trp Leu Ser Cys Phe Gly Ile Val Tyr Leu Asp Val His Pro Ile Ala | |
| 145 150 155 160 | |
| His Cys Leu Phe Leu Lys Arg Leu Phe Lys Cys Tyr Val Phe Leu Xaa | |
| 165 170 175 | |
| Ser Leu Val Phe Cys Phe Met His Ala Leu Leu Pro Xaa Thr Leu Lys | |
| 180 185 190 | |
| Asn Thr Cys Phe Asp Val Leu Phe Ile Phe Ile Cys Glu Lys Ser Leu | |
| 195 200 205 | |
| Leu Ala Asn Met Ser Phe Val Thr Ile Val Ser Ser Leu Ile Leu Leu | |
| 210 215 220 | |
| Thr Asn Xaa Glu Ile Ile Ser Phe Ser Ser Val Ile Leu Cys Gly Thr | |
| 225 230 235 240 | |
| Ile His Leu Asn Leu Ser Ser Phe Phe Leu His Arg Phe Phe Ile Phe | |
| 245 250 255 | |
| Phe Phe Cys Leu Lys Ser Ala Asn Ile Tyr Leu Asn Val Asp Leu Leu | |
| 260 265 270 | |
| Ser Ile Ile Leu Thr Leu Val | |
| 275 | |

<210> 2134
 <211> 314
 <212> PRT
 <213> Homo sapien (7283250-10-5473-8590)

<400> 2134
 Met Glu Arg Gly Asn Trp Thr Leu Val Thr Glu Phe Ile Leu Val Gly
 1 5 10 15
 Ile Pro Thr Thr Arg Ala Leu Gly Gly Leu Leu Phe Val Ile Phe Tyr
 20 25 30
 Pro Ala Tyr Leu Val Thr Val Leu Gly Asn Thr Leu Ile Ile Ile Leu
 35 40 45
 Ile Leu Val Asp Tyr Arg Leu His Ser Pro Met Tyr Phe Phe Leu Ser
 50 55 60
 Asn Leu Ser Phe Ser Glu Thr Leu Thr Ile Thr Cys Ala Val Pro Lys
 65 70 75 80
 Met Leu Glu Gly Phe Pro Ser Glu Arg Lys Ser Ile Thr Ser Gly Glu
 85 90 95
 Cys Ser Ala Gln Ser Tyr Phe Tyr Phe Leu Ser Gly Cys Thr Glu Phe
 100 105 110
 Ile Pro Phe Ala Val Met Ser Tyr Asp Arg Tyr Val Ala Ile Cys Ser
 115 120 125
 Pro Leu Gln Tyr Pro Ala Ile Met Thr Ser Ser Leu Cys Ala His Leu
 130 135 140
 Val Ile Leu Ser Trp Val Gly Gly Phe Leu Leu Met Leu Pro Ser Thr
 145 150 155 160
 Ile Leu Lys Ala Gly Leu Pro His Cys Gly Pro Asn Val Ile Glu His
 165 170 175
 Phe Phe Cys Asp Ser Ala Pro Leu Leu His Leu Ala Cys Ala Asp Ile
 180 185 190
 Arg Ala Ile Glu Leu Leu Asp Phe Leu Ser Ser Leu Val Leu Ile Leu
 195 200 205
 Ser Ser Leu Ser Leu Thr Val Val Ser Tyr Val Tyr Ile Ile Ser Thr
 210 215 220
 Ile Leu Lys Ile Pro Ser Gly Gln Gly Gln Arg Lys Ala Phe Ala Thr
 225 230 235 240
 Cys Ala Ser His Phe Thr Val Val Ser Val Gly Tyr Gly Ile Ser Ile
 245 250 255
 Phe Val Tyr Val His Pro Ser Gln Lys Ser Ser Leu His Leu Asn Lys
 260 265 270
 Ile Leu Phe Ile Leu Ser Ser Ile Ile Thr Pro Leu Leu Asn Pro Phe
 275 280 285
 Val Phe Ser Leu Trp Asn Glu Pro Met Lys Asp Ala Leu Lys Asp Ala
 290 295 300
 Val Gly Arg Arg Thr Glu Leu Ala Gln Arg
 305 310

<210> 2135
 <211> 309
 <212> PRT
 <213> Homo sapien (7283250-11-11521-16137)

<400> 2135
 Met Ala Asn Leu Thr Ile Val Thr Glu Phe Ile Leu Met Gly Phe Ser
 1 5 10 15
 Thr Asn Lys Asn Met Cys Ile Leu His Ser Ile Leu Phe Leu Leu Ile
 20 25 30
 Tyr Leu Cys Ala Leu Met Gly Asn Val Leu Ile Ile Met Ile Thr Thr
 35 40 45
 Leu Asp His His Leu His Thr Pro Val Tyr Phe Phe Leu Lys Asn Leu

50 55 60
 Ser Phe Leu Asp Leu Cys Leu Ile Ser Val Thr Ala Pro Lys Ser Ile
 65 70 75 80
 Ala Asn Ser Leu Ile His Asn Asn Ser Ile Ser Phe Leu Gly Cys Val
 85 90 95
 Ser Gln Val Phe Leu Leu Leu Ser Ser Ala Ser Ala Glu Leu Leu Leu
 100 105 110
 Leu Thr Val Met Ser Phe Asp Arg Tyr Thr Ala Ile Cys His Pro Leu
 115 120 125
 His Tyr Asp Val Ile Met Asp Arg Ser Thr Cys Val Gln Arg Ala Thr
 130 135 140
 Val Ser Trp Leu Tyr Gly Gly Leu Ile Ala Val Met His Thr Ala Gly
 145 150 155 160
 Thr Phe Ser Leu Ser Tyr Cys Gly Ser Asn Met Val His Gln Phe Phe
 165 170 175
 Cys Asp Ile Pro Gln Leu Leu Ala Ile Ser Cys Ser Glu Asn Leu Ile
 180 185 190
 Arg Glu Ile Ala Leu Ile Leu Ile Asn Val Val Leu Asp Phe Cys Cys
 195 200 205
 Phe Ile Val Ile Ile Ile Thr Tyr Val His Val Phe Ser Thr Val Lys
 210 215 220
 Lys Ile Pro Ser Thr Glu Gly Gln Ser Lys Ala Tyr Ser Ile Cys Leu
 225 230 235 240
 Pro His Leu Leu Val Val Leu Phe Leu Ser Thr Gly Phe Ile Ala Tyr
 245 250 255
 Leu Lys Pro Ala Ser Glu Ser Pro Ser Ile Leu Asp Ala Val Ile Ser
 260 265 270
 Val Phe Tyr Thr Met Leu Pro Pro Thr Phe Asn Pro Ile Ile Tyr Ser
 275 280 285
 Leu Arg Asn Lys Ala Ile Lys Val Ala Leu Gly Met Leu Ile Lys Gly
 290 295 300
 Lys Leu Thr Lys Lys
 305

<210> 2136

<211> 313

<212> PRT

<213> Homo sapien (7283250-5-1-3004)

<400> 2136

Met Glu Lys Arg Asn Leu Thr Val Val Arg Glu Phe Val Leu Leu Gly
 1 5 10 15
 Leu Pro Ser Ser Ala Glu Gln Gln His Leu Leu Ser Val Leu Phe Leu
 20 25 30
 Cys Met Tyr Leu Ala Thr Thr Leu Gly Asn Met Leu Ile Ile Ala Thr
 35 40 45
 Ile Gly Phe Asp Ser His Leu His Ser Pro Met Tyr Phe Phe Leu Ser
 50 55 60
 Asn Leu Ala Phe Val Asp Ile Cys Phe Thr Ser Thr Thr Val Pro Gln
 65 70 75 80
 Met Val Val Asn Ile Leu Thr Gly Thr Lys Thr Ile Ser Phe Ala Gly
 85 90 95
 Cys Leu Thr Gln Leu Phe Phe Phe Val Ser Phe Val Asn Met Asp Ser
 100 105 110
 Leu Leu Leu Cys Val Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys His
 115 120 125
 Pro Leu His Tyr Thr Ala Arg Met Asn Leu Cys Leu Cys Val Gln Leu
 130 135 140
 Val Ala Gly Leu Trp Leu Val Thr Tyr Leu His Ala Leu Leu His Thr
 145 150 155 160
 Val Leu Ile Ala Gln Leu Ser Phe Cys Ala Ser Asn Ile Ile His His

```

      165      170      175
Phe Phe Cys Asp Leu Asn Pro Leu Leu Gln Leu Ser Cys Ser Asp Val
      180      185      190
Ser Phe Asn Val Met Ile Ile Phe Ala Val Gly Gly Leu Leu Ala Leu
      195      200      205
Thr Pro Leu Val Cys Ile Leu Val Ser Tyr Gly Leu Ile Phe Ser Thr
      210      215      220
Val Leu Lys Ile Thr Ser Thr Gln Gly Lys Gln Arg Ala Val Ser Thr
      225      230      235      240
Cys Ser Cys His Leu Ser Val Val Val Leu Phe Tyr Gly Thr Ala Ile
      245      250      255
Ala Val Tyr Phe Ser Pro Ser Ser Pro His Met Pro Glu Ser Asp Thr
      260      265      270
Leu Ser Thr Ile Met Tyr Ser Met Val Ala Pro Met Leu Asn Pro Phe
      275      280      285
Ile Tyr Thr Leu Arg Asn Arg Asp Met Lys Arg Gly Leu Gln Lys Met
      290      295      300
Leu Leu Lys Cys Thr Val Phe Gln Gln
      305      310

```

<210> 2137

<211> 310

<212> PRT

<213> Homo sapien (7283250-6-1-1725)

<220>

<221> VARIANT

<222> (1)...(310)

<223> Xaa = Any Amino Acid

<400> 2137

```

Met Val Asn Phe Thr His Val Ser Glu Phe Val Leu Leu Gly Phe Gln
  1      5      10      15
Gly Gly Pro Gly Met Gln Ala Met Leu Phe Leu Ile Phe Leu Ile Leu
      20      25      30
Tyr Gly Ile Ala Val Val Gly Asn Leu Gly Met Ile Val Ile Ile Trp
      35      40      45
Val Asp Ala His Leu His Thr Pro Met Tyr Ala Phe Leu Gln Ser Leu
      50      55      60
Ser Leu Leu Asp Ile Cys Tyr Ser Ser Thr Ile Ala Pro Arg Ala Leu
      65      70      75      80
Ala Asn Ser Met Gln Glu Asp His Thr Ile Ser Phe Gly Gly Cys Ala
      85      90      95
Ala Gln Phe Phe Phe Leu Ser Leu Phe Gly Ile Thr Glu Ala Phe Leu
      100      105      110
Leu Ala Ala Met Ala Tyr Asp Arg Phe Ile Ala Ile Cys Asn Pro Leu
      115      120      125
Leu Tyr Ser Val Ser Met Ser His Gln Val Cys Val Leu Leu Ile Ser
      130      135      140
Gly Ser Tyr Leu Trp Gly Val Val Asn Ala Ile Ala Gln Thr Thr Met
      145      150      155      160
Thr Phe Arg Leu Pro Phe Cys Gly Ser Asn Glu Ile Asn Asp Phe Phe
      165      170      175
Cys Asp Val Pro Pro Leu Leu Ser Leu Ser Cys Ser Asp Thr Phe Ile
      180      185      190
Asn Gln Leu Val Leu Leu Gly Leu Cys Gly Ser Ile Ile Val Ser Thr
      195      200      205
Phe Leu Ile Val Leu Val Ser Tyr Ile Tyr Ile Ile Ser Thr Ile Leu
      210      215      220
Arg Ile Pro Thr Met Gln Gly Arg Xaa Lys Ala Phe Ser Thr Cys Ala
      225      230      235      240

```

Ser His Leu Thr Gly Val Cys Leu Phe Phe Gly Thr Val Phe Phe Met
 245 250 255
 Tyr Ala Gln Pro Ser Ala Ile Phe Phe Met Glu Gln Ser Lys Ile Val
 260 265 270
 Ser Ile Phe Tyr Thr Met Val Ile Pro Met Leu Asn Pro Leu Ile Tyr
 275 280 285
 Ser Leu Arg Asn Lys Glu Val Lys Gln Ala Leu Arg Arg Ser Met Gln
 290 295 300
 Lys Leu Ser Leu Xaa Ser
 305 310

<210> 2138

<211> 320

<212> PRT

<213> Homo sapien (7321521-20-4435-9278)

<220>

<221> VARIANT

<222> (1)...(320)

<223> Xaa = Any Amino Acid

<400> 2138

Met Ser Ser Arg Leu Met Asn Val Phe Ser Met Glu Thr Ile Asn Phe
 1 5 10 15
 Val Ser Cys Leu Ile Leu Met Gly Phe Pro Ser Ser Pro Glu Met Gln
 20 25 30
 Leu Leu Tyr Phe Gly Leu Phe Ser Val Ala Tyr Thr Leu Thr Pro Met
 35 40 45
 Gly Asn Ala Ala Ile Val Cys Ala Val Trp Xaa Asp Gln His Leu His
 50 55 60
 Thr Pro Met Tyr Thr Leu Leu Gly Asn Phe Ser Leu Leu Glu Ile Trp
 65 70 75 80
 Tyr Val Thr Ala Thr Lys Leu Leu Ala Asn Phe Leu Ser Thr Ser Lys
 85 90 95
 Ser Ile Ser Phe Met Ser Cys Phe Ala Gln Phe Tyr Phe Phe Ser Leu
 100 105 110
 Gly Tyr Asp Glu Gly Phe Phe Leu Cys Ile Thr Ala Phe Asp Arg Tyr
 115 120 125
 Leu Ala Ile Cys Arg Pro Leu Arg Tyr Pro Cys Ile Met Thr Lys Gln
 130 135 140
 Val Cys Thr Gly Leu Ile Ile Phe Ala Trp Ser Cys Val Phe Val Ile
 145 150 155 160
 Phe Leu Thr Leu Val Ile Leu Ile Ser Gln Leu Ser Tyr Cys Gly Pro
 165 170 175
 Asn Ile Ile Asn His Phe Ile Cys Asp Pro Val Pro Leu Lys Met Leu
 180 185 190
 Ser Cys Ser Glu Asp Ile Ile Ile Thr Gln Leu Ile Tyr Ser Thr Phe
 195 200 205
 Asn Ser Val Phe Ile Ile Gly Thr Phe Leu Phe Ile Leu Cys Ser Tyr
 210 215 220
 Ala Leu Val Ile Leu Ala Ile Ile Arg Met Pro Ser Glu Ala Gly Lys
 225 230 235 240
 Arg Lys Ala Phe Ser Thr Cys Ala Ser His Leu Ala Val Val Thr Leu
 245 250 255
 Phe Tyr Gly Ser Ile Met Val Met Tyr Val Ser Pro Gly Ser Ala His
 260 265 270
 Pro Ala Lys Asn Glu Lys Ile Ile Thr Leu Phe Phe Ser Val Ile Thr
 275 280 285
 Pro Leu Cys Asn Pro Leu Ile Ile Tyr Ser Leu Arg Asn Lys Glu Met Lys
 290 295 300
 Asp Tyr Leu Arg Lys Ile Phe Arg Thr Gly Lys Asp Val Asn Lys Ile

305

310

315

320

<210> 2139

<211> 331

<212> PRT

<213> Homo sapien (7321521-21-4479-8486)

<220>

<221> VARIANT

<222> (1)...(331)

<223> Xaa = Any Amino Acid

<400> 2139

```

Met Glu Ser Glu Asn Arg Thr Val Ile Arg Glu Phe Ile Leu Leu Arg
 1           5           10          15
Leu Thr Gln Phe Arg Asp Ile Xaa Leu Leu Val Phe Val Leu Val Leu
      20           25          30
Ile Phe Tyr Phe Phe Ile Leu Pro Gly Asn Phe Leu Ile Ile Phe Thr
      35           40          45
Ile Arg Ser Asp Pro Gly Leu Thr Ala Pro Leu Tyr Leu Phe Leu Gly
 50           55          60
Asn Leu Ala Phe Leu Asp Ala Ser Tyr Ser Phe Ile Val Ala Pro Lys
65           70          75          80
Met Leu Val Asp Phe Leu Ser Glu Lys Lys Val Ile Ser Tyr Arg Gly
      85           90          95
Cys Ile Thr Gln Leu Phe Phe Leu His Phe Leu Gly Gly Gly Glu Gly
      100          105         110
Leu Leu Leu Val Val Met Ala Phe Asp Arg Tyr Ile Thr Ile Cys Leu
      115          120         125
Pro Leu Gln Tyr Ser Thr Val Met Asn Ser Arg Ala Cys Tyr Ala Met
      130          135         140
Met Leu Ala Leu Trp Leu Gly Gly Phe Val His Ser Ile Ile Gln Val
145          150         155         160
Val Leu Ile Ile Arg Leu Pro Phe Cys Gly Pro Asn Gln Leu Asp Asn
      165          170         175
Phe Phe Cys Asp Val Arg Gln Val Ile Lys Leu Ala Cys Thr Asp Met
      180          185         190
Phe Val Val Glu Leu Leu Met Val Phe Asn Ser Gly Leu Met Thr Leu
      195          200         205
Met Cys Phe Leu Gly Leu Leu Ala Ser Tyr Ala Val Ile Leu Cys Arg
      210          215         220
Ile Arg Ala Ser Ser Ser Glu Ala Lys Asn Lys Ala Met Ser Thr Cys
225          230         235         240
Thr Thr His Ile Ile Val Ile Phe Phe Met Phe Gly Pro Gly Ile Phe
      245          250         255
Ile Tyr Thr Cys Pro Phe Arg Ala Phe Pro Ala Asp Lys Val Val Ser
      260          265         270
Leu Phe His Thr Val Ile Leu Pro Leu Leu Asn Pro Val Ile Tyr Thr
      275          280         285
Leu His Asn Gln Glu Val Lys Ala Ser Met Lys Lys Val Phe Asn Lys
      290          295         300
His Ile Ala Xaa Lys Arg Ala Lys Lys Arg Ile Lys Ile Asp Cys
305          310         315         320
Lys Phe Tyr Leu Lys Leu Ile Cys Leu Phe Pro
      325          330

```

<210> 2140

<211> 313

<212> PRT

<213> Homo sapien (7321521-22-8611-12801)

<400> 2140

```

Met Glu Thr Ala Asn Tyr Thr Lys Val Thr Glu Phe Val Leu Thr Gly
 1          5          10          15
Leu Ser Gln Thr Pro Glu Val Gln Leu Val Leu Phe Val Ile Phe Leu
          20          25          30
Ser Phe Tyr Leu Phe Ile Leu Pro Gly Asn Ile Leu Ile Ile Cys Thr
          35          40          45
Ile Ser Leu Asp Pro His Leu Thr Ser Pro Met Tyr Phe Leu Leu Ala
          50          55          60
Asn Leu Ala Phe Leu Asp Ile Trp Tyr Ser Ser Ile Thr Ala Pro Glu
65          70          75          80
Met Leu Ile Asp Phe Phe Val Glu Arg Lys Ile Ile Ser Phe Asp Gly
          85          90          95
Cys Ile Ala Gln Leu Phe Phe Leu His Phe Ala Gly Ala Ser Glu Met
          100          105          110
Phe Leu Leu Thr Val Met Ala Phe Asp Leu Tyr Thr Ala Ile Cys Arg
          115          120          125
Pro Leu His Tyr Ala Thr Ile Met Asn Gln Arg Leu Cys Cys Ile Leu
          130          135          140
Val Ala Leu Ser Trp Arg Gly Gly Phe Ile His Ser Ile Ile Gln Val
145          150          155          160
Ala Leu Ile Val Arg Leu Pro Phe Cys Gly Pro Asn Glu Leu Asp Ser
          165          170          175
Tyr Phe Cys Asp Ile Thr Gln Val Val Arg Ile Ala Cys Ala Asn Thr
          180          185          190
Phe Pro Glu Glu Leu Val Met Ile Cys Ser Ser Gly Leu Ile Ser Val
          195          200          205
Val Trp Leu Ile Ala Leu Leu Met Ser Tyr Ala Phe Leu Leu Ala Leu
          210          215          220
Phe Lys Lys Leu Ser Gly Ser Gly Glu Asn Thr Asn Arg Ala Met Ser
225          230          235          240
Thr Cys Tyr Ser His Ile Thr Ile Val Val Leu Met Phe Gly Pro Ser
          245          250          255
Ile Tyr Ile Tyr Ala Arg Pro Phe Asp Ser Phe Ser Leu Asp Lys Val
          260          265          270
Val Ser Val Phe Asn Thr Leu Ile Phe Pro Leu Arg Asn Pro Ile Ile
          275          280          285
Tyr Thr Leu Arg Asn Lys Glu Val Lys Ala Ala Met Arg Lys Leu Val
          290          295          300
Thr Lys Tyr Ile Leu Cys Lys Glu Lys
305          310

```

<210> 2141

<211> 134

<212> PRT

<213> Homo sapien (7321637-16-2663-3767)

<220>

<221> VARIANT

<222> (1)...(134)

<223> Xaa = Any Amino Acid

<400> 2141

```

His Met Val Asp Ile Leu Asn Arg Gln Thr Leu Leu Tyr Leu Val Leu
 1          5          10          15
Gly Leu Trp Leu Glu His Val Leu Pro Ser Ser Phe Gly Thr Val Met
          20          25          30
Val Pro Leu Cys Gly Pro Arg Met Thr Ala Arg Leu Leu Phe Leu Pro
          35          40          45
Val Pro Leu Ser Ala Glu Asn Glu Leu Arg Arg Ala Leu Leu Ser Thr
          50          55          60

```

Glu Ala His Thr Ile Ser Leu Val Gly Gln Arg Leu Ala Ile Pro Cys
 65 70 75 80
 Asn Asn Ile Ser Xaa Phe Ile Tyr Leu Ile Lys Asn Arg Asn Leu Gly
 85 90 95
 Gln Gln Pro Ala Tyr Ser Thr Cys Trp Asp His Xaa Leu Leu Val Ser
 100 105 110
 Leu Phe Tyr Phe Lys Thr Phe His Ile Xaa Thr His Gly Ser Thr Ser
 115 120 125
 Phe Thr Phe Ile Lys Leu
 130

<210> 2142

<211> 315

<212> PRT

<213> Homo sapien (7327747-39-1-1406)

<400> 2142

Met Glu Thr Trp Val Asn Gln Ser Tyr Thr Asp Gly Phe Phe Leu Leu
 1 5 10 15
 Gly Ile Phe Ser His Ser Thr Ala Asp Leu Val Leu Phe Ser Val Val
 20 25 30
 Met Ala Val Phe Thr Val Ala Leu Cys Gly Asn Val Leu Ile Phe
 35 40 45
 Leu Ile Tyr Met Asp Pro His Leu His Thr Pro Met Tyr Phe Phe Leu
 50 55 60
 Ser Gln Leu Ser Leu Met Asp Leu Met Leu Val Cys Thr Asn Val Pro
 65 70 75 80
 Lys Met Ala Ala Asn Phe Leu Ser Gly Arg Lys Ser Ile Ser Phe Val
 85 90 95
 Gly Cys Gly Ile Gln Ile Gly Leu Phe Val Cys Leu Val Gly Ser Glu
 100 105 110
 Gly Leu Leu Leu Gly Leu Met Ala Tyr Asp Arg Tyr Val Ala Ile Ser
 115 120 125
 His Pro Leu His Tyr Pro Ile Leu Met Asn Gln Arg Val Cys Leu Gln
 130 135 140
 Ile Thr Gly Ser Ser Trp Ala Phe Gly Ile Ile Asp Gly Leu Ile Gln
 145 150 155 160
 Met Val Val Val Met Asn Phe Pro Tyr Cys Gly Leu Arg Lys Val Asn
 165 170 175
 His Phe Phe Cys Glu Met Leu Ser Leu Leu Lys Leu Ala Cys Val Asp
 180 185 190
 Thr Ser Leu Phe Glu Lys Val Ile Phe Ala Cys Cys Val Phe Met Leu
 195 200 205
 Leu Phe Pro Phe Ser Ile Ile Val Ala Ser Tyr Ala Arg Ile Leu Gly
 210 215 220
 Thr Val Leu Gln Met His Ser Ala Gln Ala Trp Lys Lys Ala Leu Ala
 225 230 235 240
 Thr Cys Ser Ser His Leu Thr Ala Val Thr Leu Phe Tyr Gly Ala Ala
 245 250 255
 Met Phe Ile Tyr Leu Arg Pro Arg His Tyr Arg Ala Pro Ser His Asp
 260 265 270
 Lys Val Ala Ser Ile Phe Tyr Thr Val Leu Thr Pro Met Leu Asn Pro
 275 280 285
 Leu Ile Tyr Ser Leu Arg Asn Arg Glu Val Met Gly Ala Leu Arg Lys
 290 295 300
 Gly Leu Asp Arg Cys Arg Ile Gly Ser Gln His
 305 310 315

<210> 2143

<211> 308

<212> PRT

<213> Homo sapien (7328761-32-2018-4643)

<220>

<221> VARIANT

<222> (1)...(308)

<223> Xaa = Any Amino Acid

<400> 2143

```

Met Lys Ile Asn Asp Ser Ser Gly Glu Asp Phe Ile Leu Val Gly Phe
 1           5           10           15
Ser Glu Tyr Pro Gln Ala Glu Phe Ile Leu Ser Leu Phe Val Ser Gly
          20           25           30
Phe Tyr Thr Met Thr Phe Thr Gly Asn Thr Ala Ile Ile Leu Val Ser
          35           40           45
Leu Leu Asp Tyr Arg Leu Arg Thr Pro Met Tyr Phe Phe Leu Arg Lys
          50           55           60
Leu Ser Phe Leu Asp Met Cys Phe Thr Thr Cys Ile Val Leu Gln Met
          65           70           75           80
Leu Val Asn Ile Trp Gly Glu Ser Lys Lys Val Ser Tyr Val Gly Cys
          85           90           95
Met Val Gln Tyr Ser Val Ala Leu Ala Leu Gly Ser Thr Glu Cys Val
          100          105          110
Leu Leu Ala Ile Met Ala Val Asp Arg Tyr Val Ala Val Arg Trp Pro
          115          120          125
Leu His Tyr Val Thr Ile Met His Gln Gln Ile Cys His Phe Leu Ala
          130          135          140
Ala Leu Ser Trp Phe Ser Gly Leu Ala Asn Ser Leu Phe His Ser Ser
          145          150          155          160
Leu Thr Thr Ile Leu Pro Leu Cys Gly His Arg Arg Val Asp His Phe
          165          170          175
Phe Cys Glu Val Leu Leu Ile Val Lys Leu Ser Cys Val Asp Thr Gly
          180          185          190
Pro Thr Glu Leu Lys Met Leu Ile Ala Arg Val Ile Ile Leu Ala Leu
          195          200          205
Pro Val Cys Thr Ile Leu Thr Ser Tyr Ala Cys Ile Ala Arg Ala Val
          210          215          220
Leu Arg Leu Gln Ser Ala Glu Gly Gln Gln Lys Ala Phe Gly Thr Cys
          225          230          235          240
Ala Ser His Leu Met Val Val Leu Leu Phe Tyr Gly Thr Ile Met Phe
          245          250          255
Met Cys Leu Gln Leu Lys Ser Asn Tyr Ser Gln Ile Gln Gly Lys Leu
          260          265          270
Leu Pro Leu Val Tyr Thr Ile Ala Ala Pro Thr Xaa Asn Pro Leu Ile
          275          280          285
Tyr Ala Leu Arg Asn Lys Val Val Lys Arg Ala Ile Gly Lys Leu Ile
          290          295          300
Trp Lys Asp Ser
305

```

<210> 2144

<211> 101

<212> PRT

<213> Homo sapien (7341899-1-693-1026)

<220>

<221> VARIANT

<222> (1)...(101)

<223> Xaa = Any Amino Acid

<400> 2144

```

Gln Met Leu Thr Asp Trp Trp Gly Pro Asn Arg Thr Thr Ser Tyr Val

```

```

1           5           10           15
Asn Cys Thr Ile Gln Phe Leu Val Ser Leu Xaa Cys Met Cys His Tyr
      20           25           30
Ile Ile Ser Tyr Asn Tyr Phe Ile Ile Ile Cys His Pro Leu Xaa Tyr
      35           40           45
Leu Leu Ile Met Asn Leu Tyr Leu Leu Leu Asn Leu Thr Leu Ile Leu
      50           55           60
Glu Gly Xaa Phe Ile His Phe Trp His His Val Tyr Ser Ile Leu Lys
      65           70           75           80
Ile Pro Arg Met Lys Lys Lys Asn Leu Gln Ile Ile Pro Leu Ile Gly
      85           90           95
Cys Cys Leu Ala Glu
      100

```

<210> 2145

<211> 326

<212> PRT

<213> Homo sapien (7341899-24-747-1936)

<400> 2145

```

Met Glu Arg Ala Asn Asp Ser Thr Phe Ser Gly Phe Ile Leu Leu Gly
1           5           10           15
Phe Ser Asn Arg Pro Gln Leu Glu Thr Ala Leu Phe Val Val Ile Leu
      20           25           30
Ile Ile Tyr Phe Leu Ser Phe Leu Gly Asn Gly Thr Ile Ile Leu Leu
      35           40           45
Ser Ile Val Asp Pro Arg Leu His Thr Pro Met Tyr Phe Phe Leu Ser
      50           55           60
Asn Leu Ser Phe Met Asp Leu Cys Leu Thr Thr Cys Thr Val Pro Gln
      65           70           75           80
Thr Leu Val Asn Phe Lys Gly Lys Asp Lys Thr Ile Thr Tyr Gly Gly
      85           90           95
Cys Val Thr Gln Leu Phe Ile Ala Leu Gly Leu Gly Gly Ser Glu Cys
      100           105           110
Val Leu Leu Ser Ala Met Ala Tyr Asp Arg Tyr Ala Ala Val Cys Arg
      115           120           125
Ser Leu His Tyr Met Val Ser Met His Pro Gln Leu Cys Leu Gln Leu
      130           135           140
Val Val Thr Thr Trp Leu Thr Gly Phe Gly Asn Ser Val Ile Gln Thr
      145           150           155           160
Ala Leu Thr Met Thr Leu Pro Leu Cys Asp Lys Asn Gln Val Asp His
      165           170           175
Phe Phe Cys Glu Val Pro Val Met Leu Lys Leu Ser Cys Thr Asn Thr
      180           185           190
Ser Ile Asn Glu Ala Glu Ile Phe Ala Val Ser Val Phe Phe Leu Val
      195           200           205
Val Pro Leu Ser Leu Ile Leu Ala Ser Tyr Gly His Ile Thr His Ala
      210           215           220
Val Leu Lys Ile Lys Ser Ala Gln Gly Arg Gln Lys Ala Phe Gly Thr
      225           230           235           240
Cys Gly Ser His Leu Leu Val Val Ile Ile Phe Phe Gly Thr Leu Ile
      245           250           255
Ser Met Tyr Leu Gln Pro Pro Ser Ser Tyr Ser Gln Asp Val Asn Lys
      260           265           270
Ser Ile Ala Leu Phe Tyr Thr Leu Val Thr Pro Leu Leu Asn Pro Leu
      275           280           285
Ile Tyr Thr Leu Arg Asn Lys Glu Val Lys Gly Ala Thr Lys Lys Thr
      290           295           300
Ser Gly Glu Asp Ile Ala Cys Met Arg Lys Leu Thr Gln Gly Leu Gln
      305           310           315           320
Phe Gln Thr Phe Val His

```

325

<210> 2146
 <211> 155
 <212> PRT
 <213> Homo sapien (7341899-6-1-567)

<220>
 <221> VARIANT
 <222> (1)...(155)
 <223> Xaa = Any Amino Acid

<400> 2146
 Met Lys Lys Lys Asn Leu Gln Asp Asn Ser Leu His Val Leu Leu Ala
 1 5 10 15
 Met Leu Lys Thr Val Phe Leu Asp Ala Thr Ile Glu Glu Met Ser Val
 20 25 30
 Phe Val Leu Asn Asn Val Asn Val Leu Ile Cys Leu Ile Ser Asn Phe
 35 40 45
 Thr Cys Tyr Gly Tyr Ile Ala Gly Ala Leu Arg Met Asn Thr Ser Asn
 50 55 60
 Xaa Ile Arg Ser Lys Leu Arg Asn Gln Tyr His His His His Arg
 65 70 75 80
 Cys His Phe Ile Ile Asp Ser Ile Phe Tyr Gly Ile Ile Val Xaa Met
 85 90 95
 Leu Leu Gln Asp Gly Asn Asn Ser Ser Gln Asp Gln Glu Arg Phe Phe
 100 105 110
 Ile Leu Phe Tyr Thr Ile Leu Thr Pro Ser Leu Lys Leu Leu Val Tyr
 115 120 125
 Leu Leu Arg Asn Lys Asp Ile Lys Asp Ile Ser Arg Arg Ile Leu Arg
 130 135 140
 Phe Gly Arg Glu Ser Ser Lys Met Lys Gly Asn
 145 150 155

<210> 2147
 <211> 318
 <212> PRT
 <213> Homo sapien (7341900-14-7037-9080)

<220>
 <221> VARIANT
 <222> (1)...(318)
 <223> Xaa = Any Amino Acid

<400> 2147
 Met Ala Glu Ser Gly Thr Thr Val Thr Glu Phe Phe Leu Arg Gly Phe
 1 5 10 15
 Arg Leu Lys Ala Glu Leu Gln Ile Gly Leu Phe Phe Val Phe Leu Val
 20 25 30
 Ile Phe Leu Ile Thr Met Gly Gly Asn Leu Gly Met Ile Val Leu Met
 35 40 45
 Leu Ile Gln Thr Asp Pro Arg Leu Gln Thr Pro Met Tyr Phe Phe Leu
 50 55 60
 Ser His Leu Ser Phe Leu Asp Ile Cys Tyr Ser Ser Val Ile Gly Pro
 65 70 75 80
 Gln Leu Leu Glu Thr Leu Ala Thr Asp Lys Met Ile Ile Thr Tyr Glu
 85 90 95
 Arg Cys Ala Ser Gln Phe Phe Phe Phe Thr Leu Cys Ala Ser Ile Glu
 100 105 110
 Cys Phe Leu Leu Ala Val Met Ala Tyr Asp Arg Tyr Val Ala Val Cys
 115 120 125

```

Asn Pro Leu Leu Tyr Ala Ile Val Met Thr Pro Lys Thr Arg Leu Ala
 130                      135                      140
Leu Leu Ala Gly Ala Tyr Ser Gly Ala Ile Val Asn Ser Val Ile Cys
145                      150                      155                      160
Thr Gly Cys Thr Phe Ser Ile Ser Phe Ser Lys Ser Asn His Val Asp
                      165                      170                      175
Phe Phe Phe Cys Asp Leu Pro Pro Leu Leu Lys Leu Ala Cys Ser Glu
                      180                      185                      190
Thr Arg Pro Arg Glu Trp Val Ile Tyr Leu Ser Ala Phe Leu Val Ile
                      195                      200                      205
Thr Thr Ser Ile Ser Val Ile Leu Thr Ser Tyr Leu Phe Ile Ile Gln
                      210                      215                      220
Ser Val Leu Lys Ile Arg Thr Ala Gly Gly Arg Ala Lys Thr Phe Ser
225                      230                      235                      240
Thr Cys Ala Ser His Met Thr Ala Leu Thr Leu Phe Phe Gly Thr Leu
                      245                      250                      255
Ile Phe Ile Tyr Leu Lys Gly Asn Met Gly Glu Ser Leu Glu Glu Asp
                      260                      265                      270
Lys Ile Val Ser Ile Phe Tyr Thr Val Val Ile Pro Met Leu Asn Pro
                      275                      280                      285
Met Ile Tyr Ser Leu Arg Asn Lys Asp Met Lys Glu Ala Leu Lys Lys
290                      295                      300
Val Phe Asn Arg Ile Arg Val Ser Gln Ala Glu Xaa Leu Leu
305                      310                      315

```

<210> 2148

<211> 317

<212> PRT

<213> Homo sapien (7341900-15-17952-19084)

<400> 2148

```

Met Gln Pro Tyr Thr Lys Asn Trp Thr Gln Val Thr Glu Phe Val Met
 1                      5                      10                      15
Met Gly Phe Ala Gly Ile His Glu Ala His Leu Leu Phe Phe Ile Leu
                      20                      25                      30
Phe Leu Thr Met Tyr Leu Phe Thr Leu Val Glu Asn Leu Ala Ile Ile
                      35                      40                      45
Leu Val Val Gly Leu Asp His Arg Leu Arg Arg Pro Met Tyr Phe Phe
50                      55                      60
Leu Thr His Leu Ser Cys Leu Glu Ile Trp Tyr Thr Ser Val Thr Val
65                      70                      75                      80
Pro Lys Met Leu Ala Gly Phe Ile Gly Val Asp Gly Gly Lys Asn Ile
                      85                      90                      95
Ser Tyr Ala Gly Cys Leu Ser Gln Leu Phe Ile Phe Thr Phe Leu Gly
                      100                      105                      110
Ala Thr Glu Cys Phe Leu Leu Ala Ala Met Ala Tyr Asp Arg Tyr Val
                      115                      120                      125
Ala Ile Cys Met Pro Leu His Tyr Gly Ala Phe Val Ser Trp Gly Thr
                      130                      135                      140
Cys Ile Arg Leu Ala Ala Ala Cys Trp Leu Val Gly Phe Leu Thr Pro
145                      150                      155                      160
Ile Leu Pro Ile Tyr Leu Leu Ser Gln Leu Thr Phe Cys Gly Pro Asn
                      165                      170                      175
Val Ile Asp His Phe Ser Cys Asp Ala Ser Pro Leu Leu Ala Leu Ser
                      180                      185                      190
Cys Ser Asp Val Thr Trp Lys Glu Thr Val Asp Phe Leu Val Ser Leu
                      195                      200                      205
Ala Val Leu Leu Ala Ser Ser Met Val Ile Ala Val Ser Tyr Gly Asn
210                      215                      220
Ile Val Trp Thr Leu Leu His Ile Arg Ser Ala Ala Glu Arg Trp Lys
225                      230                      235                      240

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```
<210> 2149
<211> 314
<212> PRT
<213> Homo sapien (7341900-16-17098-20843)
```

```
<210> 2150
<211> 311
<212> PRT
```


<213> Homo sapien (7341900-6-1691-2778)

<220>

<221> VARIANT

<222> (1)...(311)

<223> Xaa = Any Amino Acid

<400> 2150

```

Glu Lys Asn Leu Ile Ser Met Asn Gly Phe Met Asn Phe Thr Asp Tyr
 1           5           10           15
Pro Glu Leu Glu Met Pro Leu Phe Leu Val Phe Leu Ser Cys Phe Leu
      20           25           30
Ala Ile Ile Leu Arg Asn Met Glu Trp Val Ile Leu Thr Gln Val Asn
      35           40           45
Val His Leu Phe Thr Pro Ile Tyr Phe Phe Leu Thr Asn Val Thr Leu
      50           55           60
Trp Asp Thr Ser Val Ile Met Pro Gln Ile Leu Ala Ile Leu Ala Thr
      65           70           75           80
Gly Lys Thr Thr Ile Ser Tyr Val Pro Leu Ile Lys Ala Met Arg Ser
      85           90           95
Phe Phe Phe Ile Cys Val Gly Thr Xaa Cys Phe Leu Pro Thr Ala Met
      100          105          110
Thr Ile Ser Ser His Cys Pro Thr Leu Gln Ala Met Asn Phe Lys Thr
      115          120          125
Cys Trp Gly Phe Phe Leu Val Gly Ile Cys Cys Cys Thr Cys Trp Val
      130          135          140
Leu Met Val Asn Val Val Asn Ala Tyr Thr Xaa Gly Leu Ser Gly Ala
      145          150          155          160
Thr Phe Asn Thr Ile Cys Thr Phe Ala Arg Phe Phe Cys Asp Asp Asn
      165          170          175
Xaa Ile Lys Phe Cys His Ile Leu Pro Leu Leu Lys Leu Ile Xaa Asn
      180          185          190
Thr Ser Gly Asn Ser Lys Ile Ile Ile Val Ile Leu Thr Ala Phe Met
      195          200          205
Ile Ile Ala Gly Thr Arg Val Ile Leu Ile Ser Tyr Leu Leu Ile Ile
      210          215          220
Arg Ala Leu Arg Met Lys Ser Ser Ser Gly Arg Ser Gln Xaa Phe Tyr
      225          230          235          240
Pro Ser Thr Cys Ala Ser His Leu Thr Ala Met Thr Phe Phe Gly Ile
      245          250          255
Pro Ile Phe Arg His Val Lys Tyr Leu Arg Xaa Ile Thr Asp Arg Arg
      260          265          270
Gln Val Gly Ile Met Thr Cys Thr Ile Phe Ile Pro Met Leu Glu Leu
      275          280          285
Leu Ile Gln Ser Leu Lys Lys Asp Ile Gln Val Ala Phe Lys Lys Ala
      290          295          300
Ile Gly Asn Phe Trp Val Phe
      305          310

```

<210> 2151

<211> 306

<212> PRT

<213> Homo sapien (7406632-1-90980-93013)

<400> 2151

```

Met Glu Gly Lys Asn Gln Thr Asn Ile Ser Glu Phe Leu Leu Leu Gly
 1           5           10           15
Phe Ser Ser Trp Gln Gln Gln Gln Val Leu Leu Phe Ala Leu Phe Leu
      20           25           30
Cys Leu Tyr Leu Thr Gly Leu Phe Gly Asn Leu Leu Ile Leu Leu Ala
      35           40           45

```

Ile Gly Ser Asp His Cys Leu His Thr Pro Met Tyr Phe Phe Leu Ala
 50 55 60
 Asn Leu Ser Leu Val Asp Leu Cys Leu Pro Ser Ala Thr Val Pro Lys
 65 70 75 80
 Met Leu Leu Asn Ile Gln Thr Gln Thr Gln Thr Ile Ser Tyr Pro Gly
 85 90 95
 Cys Leu Ala Gln Met Tyr Phe Cys Met Met Phe Ala Asn Met Asp Asn
 100 105 110
 Phe Leu Leu Thr Val Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys His
 115 120 125
 Pro Leu His Tyr Ser Thr Ile Met Ala Leu Arg Leu Cys Ala Ser Leu
 130 135 140
 Val Ala Ala Pro Trp Val Ile Ala Ile Leu Asn Pro Leu Leu His Thr
 145 150 155 160
 Leu Met Met Ala His Leu His Phe Cys Ser Asp Asn Val Ile His His
 165 170 175
 Phe Phe Cys Asp Ile Asn Ser Leu Leu Pro Leu Ser Cys Ser Asp Thr
 180 185 190
 Ser Leu Asn Gln Leu Ser Val Leu Ala Thr Val Gly Leu Ile Phe Val
 195 200 205
 Val Pro Ser Val Cys Ile Leu Val Ser Tyr Ile Leu Ile Val Ser Ala
 210 215 220
 Val Met Lys Val Pro Ser Ala Gln Gly Lys Leu Lys Ala Phe Ser Thr
 225 230 235 240
 Cys Gly Ser His Leu Ala Leu Val Ile Leu Phe Tyr Gly Ala Ile Thr
 245 250 255
 Gly Val Tyr Met Ser Pro Leu Ser Asn His Ser Thr Glu Lys Asp Ser
 260 265 270
 Ala Ala Ser Val Ile Phe Met Val Val Ala Pro Val Leu Asn Pro Phe
 275 280 285
 Ile Tyr Ser Leu Arg Asn Asn Glu Leu Lys Gly Thr Leu Lys Lys Thr
 290 295 300
 Leu Ser
 305

<210> 2152

<211> 314

<212> PRT

<213> Homo sapien (7407927-19-1-4216)

<400> 2152

Met Glu Gly Phe Asn Tyr Ser Arg Val Ser Glu Phe Met Leu Leu Gly
 1 5 10 15
 Leu Thr Asp Ser Pro Glu Leu Gln Ile Phe Phe Ser Val Val Phe Ser
 20 25 30
 Val Phe Tyr Leu Met Thr Met Leu Gly Asn Cys Leu Ile Leu Leu Thr
 35 40 45
 Val Leu Ser Thr Ser His Leu His Ser Arg Met Tyr Phe Leu Leu Ser
 50 55 60
 Asn Met Ser Ile Asp Met Cys Leu Ser Ser Phe Ala Thr Pro Lys Met
 65 70 75 80
 Ile Met Asp Phe Phe Ala Leu Arg Lys Thr Ile Ser Phe Glu Gly Cys
 85 90 95
 Ile Ser Gln Ile Phe Phe Leu His Leu Phe Asn Gly Thr Glu Ile Val
 100 105 110
 Leu Leu Ile Ser Met Ser Phe Asp Arg Tyr Ile Ala Ile Cys Lys Pro
 115 120 125
 Leu His Tyr Ser Thr Ile Met Ser Gln Arg Val Cys Val Glu Leu Val
 130 135 140
 Ala Val Ser Cys Trp Thr Val Gly Phe Leu His Thr Met Ser Gln Leu
 145 150 155 160

Val Phe Ala Leu Tyr Leu Pro Phe Cys Val Pro Asn Val Val Asp Ser
 165 170 175
 Phe Phe Cys Asp Leu Pro Leu Val Ile Gln Leu Ala Cys Ile Asp Ile
 180 185 190
 Tyr Val Leu Gly Thr Ser Met Ile Ser Thr Ser Gly Val Ile Ala Leu
 195 200 205
 Ile Ser Phe Leu Leu Leu Leu Thr Ser Tyr Ile Ile Val Leu Asn Ile
 210 215 220
 Val Arg Asp Tyr Ser Ser Thr Gly Ser Ser Lys Ala Leu Ser Thr Cys
 225 230 235 240
 Thr Ala His Phe Ile Val Val Leu Met Phe Phe Gly Pro Cys Ile Phe
 245 250 255
 Ile Tyr Val Trp Pro Ser Thr Asn Phe Leu Val Asp Lys Ile Leu Ser
 260 265 270
 Val Phe Tyr Thr Ile Phe Thr Pro Phe Leu Asn Pro Leu Ile Tyr Thr
 275 280 285
 Leu Arg Asn Gln Glu Val Lys Thr Ala Met Lys Lys Lys Leu Asn Ile
 290 295 300
 Gln Tyr Phe Ser Leu Gly Lys Thr Ala Pro
 305 310

<210> 2153
 <211> 117
 <212> PRT
 <213> Homo sapien (7407927-23-3086-3824)

<220>
 <221> VARIANT
 <222> (1)...(117)
 <223> Xaa = Any Amino Acid

<400> 2153
 Ser Ile Thr Glu Ala Leu Cys Leu Lys Tyr Val His Leu Asn Asn Lys
 1 5 10 15
 Glu Met Tyr Phe Met Tyr Leu Gly Lys Asn Arg Ser Arg Ile Ile Asn
 20 25 30
 Val Cys Ser Leu Val Leu Gln Ile Ile Thr Thr Ile Ile Leu Ile Leu
 35 40 45
 Pro Ser Pro Trp Leu Ser Leu Ile Ile Ser Gly Thr Phe Trp Ile Ile
 50 55 60
 Xaa Pro Leu His Ser Phe Pro His Gln Ile Ile Xaa Asn Ile Asn Thr
 65 70 75 80
 Ala Thr Glu Cys Thr Ile Ser Lys Leu Leu Tyr His Leu Gly Ser
 85 90 95
 Lys Leu Phe Asn Val Lys Ala Gln Phe Ser Thr Xaa Leu Leu Pro Asn
 100 105 110
 Glu Leu Tyr Val Leu
 115

<210> 2154
 <211> 338
 <212> PRT
 <213> Homo sapien (7407958-12-642-1844)

<220>
 <221> VARIANT
 <222> (1)...(338)
 <223> Xaa = Any Amino Acid

<400> 2154
 Met Ile Ser Phe Leu Val Pro Gly Leu Met Glu Glu Glu Asn Gln Arg

| | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| 1 | | | | 5 | | | | 10 | | | | | 15 | | | |
| Gly | Val | Val | His | Phe | His | Phe | His | Phe | Phe | Ser | Thr | Asp | Leu | Val | Val | |
| | | | 20 | | | | | 25 | | | | | 30 | | | |
| Ala | Ser | Phe | Ile | Ile | Val | Ala | Leu | Met | Leu | His | Leu | Arg | Ser | Leu | Val | |
| | | 35 | | | | | 40 | | | | | 45 | | | | |
| Gly | His | Phe | Thr | Phe | Gly | Pro | Thr | Val | Trp | Gln | Asp | Pro | Phe | Leu | His | |
| | 50 | | | | 55 | | | | | 60 | | | | | | |
| Ile | Pro | Met | Tyr | Leu | Phe | Leu | Phe | Ser | Leu | Ala | Leu | Thr | Met | Leu | Glu | |
| 65 | | | | 70 | | | | | 75 | | | | | | 80 | |
| Ile | Gly | Tyr | Ser | Thr | Asn | Ile | Ser | Pro | Pro | Thr | Leu | Ala | Thr | Val | Leu | |
| | | | 85 | | | | | 90 | | | | | | 95 | | |
| Tyr | Met | Gly | Lys | Met | Leu | Ile | Ser | Leu | Pro | Gly | Tyr | Gly | Thr | Gln | Met | |
| | | 100 | | | | | 105 | | | | | 110 | | | | |
| Leu | Phe | Val | Ile | Leu | Leu | Arg | Gly | Ser | Glu | Cys | Val | Leu | Leu | Ala | Val | |
| | 115 | | | | | | 120 | | | | | 125 | | | | |
| Met | Ala | Tyr | Asp | Arg | Tyr | Ile | Thr | Ile | Cys | His | Pro | Phe | Asn | Tyr | Asn | |
| | 130 | | | | 135 | | | | | 140 | | | | | | |
| Leu | Ile | Met | Ser | Gly | Xaa | Leu | Cys | Gly | Gln | Met | Thr | Leu | Gly | Ser | Leu | |
| 145 | | | | 150 | | | | | 155 | | | | | | 160 | |
| Arg | Leu | Gly | Phe | Leu | Leu | Ser | Leu | Phe | Leu | Thr | Met | Leu | Ile | Xaa | His | |
| | | | 165 | | | | | 170 | | | | | | 175 | | |
| Pro | Pro | Phe | Cys | Gly | Leu | Asp | Glu | Thr | Tyr | His | Phe | Phe | Cys | Asp | Met | |
| | | 180 | | | | | 185 | | | | | 190 | | | | |
| Pro | Thr | Ala | Ser | Arg | Leu | Val | Cys | Ala | Asp | Thr | Thr | Val | His | Glu | Ser | |
| | 195 | | | | | 200 | | | | | | 205 | | | | |
| Ala | Leu | Xaa | Leu | Pro | Cys | Gly | His | His | His | His | Pro | Leu | Pro | Ser | Ser | |
| | 210 | | | | | 215 | | | | | 220 | | | | | |
| Leu | Ile | Cys | Leu | Pro | Tyr | Gly | Cys | Leu | Ala | Ala | Thr | Ile | Leu | Arg | Met | |
| 225 | | | | 230 | | | | | 235 | | | | | | 240 | |
| His | Ser | Ala | Lys | Arg | Lys | His | Xaa | Ala | Phe | Ser | Thr | Ser | Ser | Ser | His | |
| | | 245 | | | | | | 250 | | | | | | 255 | | |
| Leu | Ile | Val | Val | Leu | Leu | Lys | Tyr | Trp | Cys | Cys | Ile | Leu | Ile | Cys | Leu | |
| | | 260 | | | | | | 265 | | | | 270 | | | | |
| Cys | Pro | Ser | Ser | Ser | Tyr | Ser | Pro | Glu | Glu | Gly | Trp | Glu | Val | Ser | Leu | |
| | 275 | | | | | | 280 | | | | | 285 | | | | |
| Val | His | Met | Phe | Ile | Leu | Pro | Val | Trp | Asn | Pro | Leu | Ile | Tyr | Ser | Val | |
| | 290 | | | | | 295 | | | | | 300 | | | | | |
| Trp | Asn | Gln | Asp | Val | Thr | Asp | Ala | Val | Glu | Arg | Leu | Val | Ala | Arg | Met | |
| 305 | | | | 310 | | | | | 315 | | | | | | 320 | |
| Ser | Leu | Xaa | Leu | Thr | Ala | Arg | Asn | Ile | Pro | Ser | Xaa | Lys | Ile | Phe | Pro | |
| | | | 325 | | | | | 330 | | | | | | 335 | | |

Xaa Leu

<210> 2155

<211> 314

<212> PRT

<213> Homo sapien (7467565-10-15924-18962)

<400> 2155

| | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| Met | Ser | Asn | Glu | Asp | Met | Glu | Gln | Asp | Asn | Thr | Thr | Leu | Leu | Thr | Glu | |
| 1 | | | 5 | | | | | 10 | | | | 15 | | | | |
| Phe | Val | Leu | Thr | Gly | Leu | Thr | Tyr | Gln | Pro | Glu | Trp | Lys | Met | Pro | Leu | |
| | | 20 | | | | | 25 | | | | | 30 | | | | |
| Phe | Leu | Val | Phe | Leu | Val | Ile | Tyr | Leu | Ile | Thr | Ile | Val | Trp | Asn | Leu | |
| | 35 | | | | | 40 | | | | | 45 | | | | | |
| Gly | Leu | Ile | Ala | Leu | Ile | Trp | Asn | Asp | Pro | Gln | Leu | His | Ile | Pro | Met | |
| | 50 | | | | 55 | | | | | 60 | | | | | | |
| Tyr | Phe | Phe | Leu | Gly | Ser | Leu | Ala | Phe | Val | Asp | Ala | Trp | Ile | Ser | Ser | |
| 65 | | | | 70 | | | | 75 | | | | | | 80 | | |
| Thr | Val | Thr | Pro | Lys | Met | Leu | Val | Asn | Phe | Leu | Ala | Lys | Asn | Arg | Met | |

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      85              90              95
Ile Ser Leu Ser Glu Cys Met Ile Gln Phe Phe Ser Phe Ala Phe Gly
      100              105              110
Gly Thr Thr Glu Cys Phe Leu Leu Ala Thr Met Ala Tyr Asp Arg Tyr
      115              120              125
Val Ala Ile Cys Lys Pro Leu Leu Tyr Pro Val Ile Met Asn Asn Ser
      130              135              140
Leu Cys Ile Arg Leu Leu Ala Phe Ser Phe Leu Gly Gly Phe Leu His
145              150              155              160
Ala Leu Ile His Glu Val Leu Ile Phe Arg Leu Thr Phe Cys Asn Ser
      165              170              175
Asn Ile Ile His His Phe Tyr Cys Asp Ile Ile Pro Leu Phe Met Ile
      180              185              190
Ser Cys Thr Asp Pro Ser Ile Asn Phe Leu Met Val Phe Ile Leu Ser
      195              200              205
Gly Ser Ile Gln Val Phe Thr Ile Val Thr Val Leu Asn Ser Tyr Thr
      210              215              220
Phe Ala Leu Phe Thr Ile Leu Lys Lys Lys Ser Val Arg Gly Val Arg
225              230              235              240
Lys Ala Phe Ser Thr Cys Gly Ala His Leu Leu Ser Val Ser Leu Tyr
      245              250              255
Tyr Gly Pro Leu Ile Phe Met Tyr Leu Arg Pro Ala Ser Pro Gln Ala
      260              265              270
Asp Asp Gln Asp Met Ile Asp Ser Val Phe Tyr Thr Ile Ile Ile Pro
      275              280              285
Leu Leu Asn Pro Ile Ile Tyr Ser Leu Arg Asn Lys Gln Val Ile Asp
      290              295              300
Ser Phe Thr Lys Met Val Lys Arg Asn Val
305              310

```

<210> 2156

<211> 320

<212> PRT

<213> Homo sapien (7533967-9-17699-19044)

<220>

<221> VARIANT

<222> (1)...(320)

<223> Xaa = Any Amino Acid

<400> 2156

```

Gly Val Gly Leu Xaa Lys Leu Xaa Trp Gln Ile Ile Phe Ser Gly Asp
 1              5              10              15
Ser Phe Ser Thr Trp Glu Met Phe Ser Leu Ser Ile Leu Gln Leu Pro
      20              25              30
Xaa Met Tyr Thr Val Ala Leu Ser Gly Thr Ser Ile Leu Ile Phe Leu
      35              40              45
Ile Xaa Thr Asp Phe Xaa Val His Thr Ser Leu Tyr Ser Phe Xaa Val
      50              55              60
Leu Ile Asp Ile Ala Ile Ser Val Val Lys Ile Gly Ile Glu Val Phe
65              70              75              80
Ser Gly Lys Ile Asn Phe Ser His Thr Gly Cys Gly Thr Gln Ile Phe
      85              90              95
Phe Phe Leu Thr Ala Gly Ile Phe Lys Tyr Val Leu Leu Thr Tyr Met
      100              105              110
Ala Tyr Asp His Asn Val Ala Ile Cys Asp Leu Arg Xaa Pro Thr Phe
      115              120              125
Met Ser Asp Gln Val Phe Xaa Gln Trp Ala Val Glu Ser Trp Ile Gly
      130              135              140
Gly Lys Leu Ser Ser Leu Ala His Thr Ile Tyr Ile Phe His Leu Phe
145              150              155              160

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Ser Tyr Lys Ala Lys Glu Ile Ser His Leu Trp Pro Lys Leu Phe Xaa
 165 170 175
 Ser Ser Ser Val Gly Ile Pro Tyr Ile Gln Asn Asp Val Phe Phe Thr
 180 185 190
 Ile Ile Thr Phe Leu Phe Thr Leu Leu Pro Leu Thr Leu Thr Leu Ser
 195 200 205
 Ser Lys Leu Ile Val Phe Thr Ile Leu His Met Asn Ser Ser Asn Gly
 210 215 220
 Gly Ala Lys Ser Trp His Thr Tyr Cys Phe His Leu Ser Val Leu Ile
 225 230 235 240
 Pro Cys Cys Gly Gln Ala Ile Phe Val Tyr Met Thr Ser Ser Ser Phe
 245 250 255
 Xaa Thr Val Asn Lys Tyr Gln Thr Met Ser Val Leu Thr Ala Xaa Leu
 260 265 270
 Tyr Pro Leu Leu Lys Pro Leu Ile Asp Ile Leu Lys Asn Ala Glu Val
 275 280 285
 Ala Gly Ala Trp Ser Lys Phe Leu Xaa Lys Lys Ala Leu Lys Ser Gln
 290 295 300
 His Leu Ile Thr Arg Ser Cys Glu Asn Lys Xaa Thr Thr Glu Gln Ser
 305 310 315 320

<210> 2157

<211> 196

<212> PRT

<213> Homo sapien (7534025-1-1-1622)

<400> 2157

Met Gly Tyr Asp Arg Tyr Met Ala Ile Cys Asn Pro Leu Arg Tyr Ser
 1 5 10 15
 Val Leu Met Gly His Gly Val Cys Met Gly Leu Met Ala Ala Cys
 20 25 30
 Ala Cys Gly Phe Thr Val Ser Leu Val Thr Thr Ser Leu Val Phe His
 35 40 45
 Leu Pro Phe His Ser Ser Asn Gln Leu His His Phe Phe Cys Asp Ile
 50 55 60
 Ser Pro Val Leu Lys Leu Ala Ser Gln His Ser Gly Phe Ser Gln Leu
 65 70 75 80
 Val Ile Phe Met Leu Gly Val Phe Ala Leu Val Ile Pro Leu Leu Leu
 85 90 95
 Ile Leu Val Ser Tyr Ile Arg Ile Ile Ser Ala Ile Leu Lys Ile Pro
 100 105 110
 Ser Ser Val Gly Arg Tyr Lys Thr Phe Ser Thr Cys Ala Ser His Leu
 115 120 125
 Ile Val Val Thr Val His Tyr Ser Cys Ala Ser Phe Ile Tyr Leu Arg
 130 135 140
 Pro Lys Thr Asn Tyr Thr Ser Ser Gln Asp Thr Leu Ile Ser Val Ser
 145 150 155 160
 Tyr Thr Ile Leu Thr Pro Leu Phe Asn Pro Met Ile Tyr Ser Leu Arg
 165 170 175
 Asn Lys Glu Phe Lys Ser Ala Leu Arg Arg Thr Ile Gly Gln Thr Phe
 180 185 190
 Tyr Pro Leu Ser
 195

<210> 2158

<211> 307

<212> PRT

<213> Homo sapien (7534025-11-6732-9742)

<220>

<221> VARIANT

<222> (1)...(307)

<223> Xaa = Any Amino Acid

<400> 2158

Met Ile Thr Glu Phe Ile Leu Ile Gly Phe Ser Asn Leu Gly Asp Leu
 1 5 10 15
 Gln Ile Leu Leu Phe Phe Ile Phe Leu Val Tyr Leu Thr Thr Leu
 20 25 30
 Met Ala Asn Thr Thr Ile Met Thr Val Ile His Leu Asp Arg Ala Leu
 35 40 45
 His Thr Pro Met Tyr Phe Phe Leu Phe Val Leu Ser Cys Ser Glu Thr
 50 55 60
 Cys Tyr Thr Leu Val Ile Val Pro Lys Met Leu Thr Asn Leu Leu Ser
 65 70 75 80
 Ala Ile Pro Thr Ile Ser Phe Ser Gly Cys Val Val Gln Leu Tyr Leu
 85 90 95
 Phe Val Gly Leu Ala Cys Thr Asn Cys Phe Leu Ile Ala Val Met Gly
 100 105 110
 Tyr Asp Arg Tyr Val Ala Ile Cys Asn Pro Leu Asn Tyr Thr Leu Ile
 115 120 125
 Val Ser Xaa Ala Thr Cys Met Gln Leu Val Leu Ala Ser Ser Phe Cys
 130 135 140
 Gly Phe Leu Thr Ser Val Ile Val Asn Ile Leu Val Phe Ser Val Leu
 145 150 155 160
 Leu Cys Ala Ser Asn Arg Ile Asn His Phe Phe Cys Asp Ile Ser Pro
 165 170 175
 Val Ile Lys Leu Gly Cys Thr Asp Thr Asn Leu Lys Glu Met Val Ile
 180 185 190
 Phe Phe Leu Ser Ile Leu Val Leu Val Pro Leu Val Leu Ile Phe
 195 200 205
 Ile Ser Tyr Ile Phe Ile Val Ser Thr Ile Leu Lys Ile Ser Ser Val
 210 215 220
 Glu Gly Gln Cys Lys Ala Phe Ala Thr Cys Ala Ser His Leu Thr Val
 225 230 235 240
 Val Val Val His Tyr Gly Cys Ala Ser Phe Ile Tyr Leu Arg Pro Thr
 245 250 255
 Ser Leu Tyr Ser Ser Asp Lys Asp Arg Leu Val Ala Val Thr Tyr Thr
 260 265 270
 Val Ile Thr Pro Leu Leu Asn Pro Leu Val Tyr Thr Leu Arg Asn Lys
 275 280 285
 Glu Val Lys Met Ala Leu Arg Lys Val Leu Gly Arg Cys Leu Asn Ser
 290 295 300
 Lys Thr Val
 305

<210> 2159

<211> 321

<212> PRT

<213> Homo sapien (7534025-12-11728-15143)

<220>

<221> VARIANT

<222> (1)...(321)

<223> Xaa = Any Amino Acid

<400> 2159

Gly Thr Lys Ser Ile Lys Leu Thr Ser Leu Ser Glu Phe Leu Leu Leu
 1 5 10 15
 Glu Phe Ser Ser Leu Glu Glu Ile Gln Gln Ile Leu Phe Leu Val Cys
 20 25 30
 Leu Trp Leu Tyr Leu Ile Val Leu Ser Gly Asn Ile Thr Thr Val Thr

```

      35              40              45
Val Ile Arg Leu Asp Gln Ser Leu His Ile Pro Val Tyr Leu Phe Leu
  50              55              60
Gly Ile Leu Ser Ile Ser Gly Thr Cys Tyr Thr Phe Val Ile Leu Pro
  65              70              75              80
Lys Met Leu Ile Asp Leu Leu Ser Leu Leu Arg Thr Ile Ser Phe Ile
      85              90              95
Asn Cys Ala Leu Gln Met Phe Phe Phe Leu Gly Phe Ala Val Thr Asn
      100              105              110
Phe Met Phe Leu Gly Met Thr Val Tyr Asp Ser Tyr Val Ala Ile Cys
      115              120              125
His Pro Leu His Tyr Pro Val Leu Thr Ser Trp Gln Ile Cys Lys Gln
      130              135              140
Leu Ala Ala Thr Cys Ala Val Ile Val Phe Phe Cys Leu Phe Val Phe
  145              150              155              160
Thr Asp Arg Leu Leu Arg Phe Ser Leu Leu Phe Cys Gly Pro Asn
      165              170              175
Lys Ile Asn His Tyr Phe Cys Asp Ile Ser Leu Leu Ile Gln Leu Ala
      180              185              190
Cys Thr Asp Thr Tyr Ile Arg Glu Leu Val Ile Phe Ile Gly Gly Ile
      195              200              205
Leu Ala Leu Thr Val Pro Leu Met Phe Ile Cys Ile Ser Tyr Gly Phe
  210              215              220
Ile Val His Thr Ile Leu Arg Ile Pro Ser Cys Glu Ser Lys Gln Lys
  225              230              235              240
Ala Ile Ser Thr Cys Ala Ser His Leu Ile Met Val Val Val His Tyr
      245              250              255
Gly Cys Ala Ser Phe Val Asn Leu Xaa Pro Ser Ala Lys Xaa Ser Ser
      260              265              270
Ser Lys Xaa Pro Ser Ser Lys Asn Arg Leu Val Thr Val Thr Tyr Thr
      275              280              285
Val Val Thr Pro Leu Leu Asn Pro Met Val Tyr Ser Phe Lys Asn Lys
      290              295              300
Asn Val Gln Met Ala Ile Trp Lys Val Ile Cys Gln Gly Gly Phe Pro
  305              310              315              320
Pro

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<210> 2160

<211> 324

<212> PRT

<213> Homo sapien (7534025-3-4346-5996)

<400> 2160

```

Met Thr Thr Ile Ile Leu Glu Val Asp Asn His Thr Val Thr Thr Arg
  1              5              10              15
Phe Ile Leu Leu Gly Phe Pro Thr Arg Pro Ala Phe Gln Leu Leu Phe
      20              25              30
Phe Ser Ile Phe Leu Ala Thr Tyr Leu Leu Thr Leu Leu Glu Asn Leu
      35              40              45
Leu Ile Ile Leu Ala Ile His Ser Asp Gly Gln Leu His Lys Pro Met
      50              55              60
Tyr Phe Phe Leu Ser His Leu Ser Phe Leu Glu Met Trp Tyr Val Thr
  65              70              75              80
Val Ile Ser Pro Lys Met Leu Val Asp Phe Leu Ser His Asp Lys Ser
      85              90              95
Ile Ser Phe Asn Gly Cys Met Thr Gln Leu Tyr Phe Phe Val Thr Phe
      100              105              110
Val Cys Thr Glu Tyr Ile Leu Leu Ala Ile Met Ala Phe Asp Arg Tyr
      115              120              125
Val Ala Ile Cys Asn Pro Leu Arg Tyr Pro Val Ile Met Thr Asn Gln

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130 135 140
 Leu Cys Gly Thr Leu Ala Gly Gly Cys Trp Phe Cys Gly Leu Met Thr
 145 150 155 160
 Ala Met Ile Lys Met Val Phe Ile Ala Gln Leu His Tyr Cys Gly Met
 165 170 175
 Pro Gln Ile Asn His Tyr Phe Cys Asp Ile Ser Pro Leu Leu Asn Val
 180 185 190
 Ser Cys Glu Asp Ala Ser Gln Ala Glu Met Val Asp Phe Phe Leu Ala
 195 200 205
 Leu Met Val Ile Ala Ile Pro Leu Cys Val Val Val Ala Ser Tyr Ala
 210 215 220
 Ala Ile Leu Ala Thr Ile Leu Arg Ile Pro Ser Ala Gln Gly Arg Gln
 225 230 235 240
 Lys Ala Phe Ser Thr Cys Ala Ser His Leu Thr Val Val Ile Leu Phe
 245 250 255
 Tyr Ser Met Thr Leu Phe Thr Tyr Ala Arg Pro Lys Leu Met Tyr Ala
 260 265 270
 Tyr Asn Ser Asn Lys Val Val Ser Val Leu Tyr Thr Val Ile Val Pro
 275 280 285
 Leu Leu Asn Pro Ile Ile Tyr Cys Leu Arg Asn His Glu Val Lys Ala
 290 295 300
 Ala Leu Arg Lys Thr Ile His Cys Arg Gly Ser Gly Pro Gln Gly Asn
 305 310 315 320
 Gly Ala Phe Ser

<210> 2161

<211> 305

<212> PRT

<213> Homo sapien (7534103-14-4211-5521)

<400> 2161

Met Val Ala Thr Asn Asn Val Thr Glu Ile Ile Phe Val Gly Phe Ser
 1 5 10 15
 Gln Asn Trp Ser Glu Gln Arg Val Ile Ser Val Met Phe Leu Leu Met
 20 25 30
 Tyr Thr Ala Val Val Leu Gly Asn Gly Leu Ile Val Val Thr Ile Leu
 35 40 45
 Ala Ser Lys Val Leu Thr Ser Pro Met Tyr Phe Phe Leu Ser Tyr Leu
 50 55 60
 Ser Phe Val Glu Ile Cys Tyr Cys Ser Val Met Ala Pro Lys Leu Ile
 65 70 75 80
 Phe Asp Ser Phe Ile Lys Arg Lys Val Ile Ser Leu Lys Gly Cys Leu
 85 90 95
 Thr Gln Met Phe Ser Leu His Phe Phe Gly Gly Thr Glu Ala Phe Leu
 100 105 110
 Leu Met Val Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Lys Pro Leu
 115 120 125
 His Tyr Met Ala Ile Met Asn Gln Arg Met Cys Gly Leu Leu Val Arg
 130 135 140
 Ile Ala Trp Gly Gly Gly Leu Leu His Ser Val Gly Gln Thr Phe Leu
 145 150 155 160
 Ile Phe Gln Leu Pro Phe Cys Gly Pro Asn Ile Met Asp His Tyr Phe
 165 170 175
 Cys Asp Val His Pro Val Leu Glu Leu Ala Cys Ala Asp Thr Phe Phe
 180 185 190
 Ile Ser Leu Ile Ile Thr Asn Gly Gly Ser Ile Ser Val Val Ser
 195 200 205
 Phe Phe Val Leu Met Ala Ser Tyr Leu Ile Ile Leu His Phe Leu Arg
 210 215 220
 Ser His Asn Leu Glu Gly Gln His Lys Ala Leu Ser Thr Cys Ala Ser

225 230 235 240
 His Val Thr Val Val Asp Leu Phe Phe Ile Pro Cys Ser Leu Val Tyr
 245 250 255
 Ile Arg Pro Cys Val Thr Leu Pro Ala Asp Lys Ile Val Ala Val Phe
 260 265 270
 Tyr Thr Val Val Thr Pro Leu Leu Asn Pro Val Ile Tyr Ser Phe Arg
 275 280 285
 Asn Ala Glu Val Lys Asn Ala Met Arg Arg Phe Ile Gly Gly Lys Val
 290 295 300
 Ile
 305

<210> 2162

<211> 301

<212> PRT

<213> Homo sapien (7534103-16-19899-21252)

<220>

<221> VARIANT

<222> (1)...(301)

<223> Xaa = Any Amino Acid

<400> 2162

Met Ala Ser Thr Asn Asn Val Thr Glu Ser Met Ile Thr Ser Leu Phe
 1 5 10 15
 Gln Asp Pro Ala Val Gln Arg Val Cys Phe Val Val Phe Leu Pro Val
 20 25 30
 Tyr Leu Ala Met Glu Val Gly Asn Gly Leu Ile Val Leu Thr Val Ser
 35 40 45
 Ile Ser Lys Ser Leu His Ser Pro Val Tyr Phe Phe Leu Ser Tyr Leu
 50 55 60
 Ser Leu Met Glu Ile Ser Tyr Phe Thr Val Val Pro Lys Phe Ile Thr
 65 70 75 80
 Asp Leu Leu Ala Lys Ile Lys Ala Ile Ser Leu Glu Gly Tyr Leu Ala
 85 90 95
 Gln Ile Phe Leu His Phe Phe Gly Ile Pro Trp Ile Phe Leu Leu Pro
 100 105 110
 Leu Met Thr Asn Asp Gln Tyr Met Ala Asn Cys Lys Leu Tyr Tyr Tyr
 115 120 125
 Thr Thr Ile Met Ser Cys Arg Val Cys His Leu Leu Val Ala Gly Phe
 130 135 140
 Trp Leu Arg Gly Ile Ile His Ser Met Val Gln Ile Leu Val Ser Val
 145 150 155 160
 Gln Leu Phe Phe Cys Gly Pro Asn Met Ile Asp His Ser Phe Cys Asp
 165 170 175
 Leu Gln Val Leu Phe Lys Leu Ala Cys Thr Asp Thr Phe Val Glu Gly
 180 185 190
 Val Ile Val Leu Ala Asn Ser Glu Leu Val Ser Val Phe Phe Leu Ile
 195 200 205
 Leu Val Ser Ser Tyr Ile Ile Ile Leu Val Asn Leu Arg Asn His Ser
 210 215 220
 Ala Glu Gly Arg Cys Lys Ala Leu Ser Thr Cys Ala Ser Tyr Leu Val
 225 230 235 240
 Phe Xaa Thr Cys Ile Phe Leu Tyr Val Xaa Leu Ser Ser Thr Phe Thr
 245 250 255
 Lys Asp Lys Leu Val Ala Val Phe Tyr Val Val Ile Thr Pro Met Leu
 260 265 270
 Asn Pro Phe Ile Tyr Thr Leu Gly Asn Ala Glu Met Lys Ile Thr Met
 275 280 285
 Arg Arg Leu Leu Gly Arg Thr Val Asn Ser Gly Met Glu
 290 295 300

<210> 2163
 <211> 134
 <212> PRT
 <213> Homo sapien (7534103-16-5480-6475)

<220>
 <221> VARIANT
 <222> (1)...(134)
 <223> Xaa = Any Amino Acid

<400> 2163
 Cys Phe Cys Gly Phe Ala Val Leu Thr Ser Cys Leu Phe Cys Leu Thr
 1 5 10 15
 Pro Glu Arg Xaa His Asn Thr Leu Arg Met Ala Leu Gly Ser His Arg
 20 25 30
 Phe Pro Ser Xaa Pro Ile Lys Lys Asn Tyr Lys Trp Pro His Tyr Gln
 35 40 45
 Pro Glu Leu Leu Pro His Trp Ser Ser Lys Thr Glu Arg Ile Cys Ser
 50 55 60
 Pro Ala Pro Ser Gly Leu Glu Met Leu Arg Asn Ala Lys Pro Leu Gly
 65 70 75 80
 Phe Gln Leu Tyr Leu Ile Xaa Asn Glu Gln Ser Arg Leu Ala Pro Gln
 85 90 95
 Gly Val Pro Gln Lys Thr Xaa Ser Leu Cys Ser Ser Ala Leu Ser Ser
 100 105 110
 Tyr Cys Leu Lys Asp Thr Gly Gly Gly Lys Xaa Ser Gly Glu Arg
 115 120 125
 Ser Ser Phe Pro Arg Glu
 130

<210> 2164
 <211> 307
 <212> PRT
 <213> Homo sapien (7547121-7-14093-14713)

<220>
 <221> VARIANT
 <222> (1)...(307)
 <223> Xaa = Any Amino Acid

<400> 2164
 Leu Ile Leu Ile Ser Leu Xaa Val Leu Ile Ser Xaa Gln Lys Leu Leu
 1 5 10 15
 Phe Val Thr Cys Leu Val Val Tyr Leu Val Thr Leu Leu Gly Asn Arg
 20 25 30
 Ile Gln Ile Ile Pro Thr Leu Leu Val Ser His Leu Tyr Leu Cys His
 35 40 45
 Gly Asn Pro Ser Phe Leu Asp Ile Gly Leu Thr Ser Ser Phe Thr Pro
 50 55 60
 Ser Ile Leu Ile Asn Phe Leu Ser Glu Gly Lys Lys Leu Ser Phe Thr
 65 70 75 80
 Asp Cys Ile Ile Gln Met Ser Ile Phe Tyr Ser Met Gly Ser Thr Glu
 85 90 95
 Cys Val Leu Leu Ala Val Met Ala Tyr Asp Asn Cys Val Val Ile Ser
 100 105 110
 Lys Phe Leu Arg Tyr Pro Leu Ile Asn Lys Val Asn Lys Ile Lys
 115 120 125
 Lys Val Leu Cys Val Phe Met Ala Thr Val Ser Tyr Glu Leu Gly Phe
 130 135 140
 Leu Asn Arg Gln Asn Val Leu Ile Val Thr Tyr Ala Met His Phe Cys

145 150 155 160
 Gly Lys His Ile Ile Asn His Phe Tyr Lys Ile Leu Gln Leu Met Pro
 165 170 175
 Leu Ala Cys Ile Asp Ile Ser Leu Asn Glu Asn Ile Ile Ile Leu Gly
 180 185 190
 Lys Val Asn Phe Ser Phe Thr Leu Leu Leu Pro Phe Gln Phe Phe Ile
 195 200 205
 Phe Ser Phe Leu Tyr Phe His His Leu Cys Cys Ile Glu Ile Asn Ser
 210 215 220
 Ala Glu Gly Arg Lys Lys Val Ser Ser Thr Cys Ser Ala His Ile Thr
 225 230 235 240
 Val Val Ile Val Phe His Arg Thr Ile Leu Phe Met Tyr Ile Lys Ser
 245 250 255
 Thr Ser Asn Gly Thr Thr Ser Glu Lys Leu Val Asp Leu Phe Cys Gly
 260 265 270
 Val Val Met Leu Met Leu Asn Leu Ile Ile Tyr Ser Leu Gly Asn Met
 275 280 285
 Glu Val Leu Gly Val Met Lys Lys Leu Ile Ser Met Ser Arg Pro Trp
 290 295 300
 Cys Trp Lys
 305

<210> 2165

<211> 214

<212> PRT

<213> Homo sapien (7622326-1-2092-6993)

<220>

<221> VARIANT

<222> (1)...(214)

<223> Xaa = Any Amino Acid

<400> 2165

Cys Leu Leu Xaa Leu Tyr Gln Val Cys Leu Leu Thr Arg Asp Pro Ile
 1 5 10 15
 Leu Gln Asp Leu His Xaa Lys Pro Arg Ile Tyr Cys Ser Pro Cys Leu
 20 25 30
 Xaa Val Tyr Ser Leu Gly Leu Asp Arg Xaa Xaa Val Phe Leu Thr Met
 35 40 45
 Thr Gln Ser Val Leu Trp Asn Glu Pro Val Cys Phe Met Phe Ser Xaa
 50 55 60
 Met Pro Phe Cys Leu Ser Xaa Ile Leu Pro Xaa Thr Tyr Tyr Glu Gln
 65 70 75 80
 Val Val Met Leu Asn Leu Val Cys Ala Asp Ile Thr Tyr Ile Val His
 85 90 95
 Thr Cys Gly Leu Phe Met Ala Phe Ser Val Asp Gly Phe Asp Ile Phe
 100 105 110
 Gly Ile Ile Ile His Arg Tyr Gln Thr Leu Gln Ala Val Leu Xaa Leu
 115 120 125
 Pro Ala Lys Glu Ser Val Pro Lys Val Phe Ser Ile Tyr Ala Phe His
 130 135 140
 Ile Cys Val Thr Leu Tyr Leu Leu Met Ile Gly Phe Tyr Ser Phe Phe
 145 150 155 160
 Ser Cys Cys Phe Ser Tyr His Thr Leu Thr Val Ile Pro Ile Ser Phe
 165 170 175
 Ser Ser Phe Tyr Ser Leu Val Pro Ser Met Phe Asn Thr Ile Thr Cys
 180 185 190
 Gly Val Lys Ser Lys His Ile Gln Glu Asn Met Val Gln Arg Phe Cys
 195 200 205
 Gly Lys Ile Ser Cys His
 210

<210> 2166
 <211> 321
 <212> PRT
 <213> Homo sapien (7622326-2-5218-6423)

<400> 2166
 Met Thr Ile Leu Leu Asn Ser Ser Leu Gln Arg Ala Thr Phe Phe Leu
 1 5 10 15
 Thr Gly Phe Gln Gly Leu Glu Gly Leu His Gly Trp Ile Ser Ile Pro
 20 25 30
 Phe Cys Phe Ile Tyr Leu Thr Val Ile Leu Gly Asn Leu Thr Ile Leu
 35 40 45
 His Val Ile Cys Thr Asp Ala Thr Leu His Gly Pro Met Tyr Tyr Phe
 50 55 60
 Leu Gly Met Leu Ala Val Thr Asp Leu Gly Leu Cys Leu Ser Thr Leu
 65 70 75 80
 Pro Thr Val Leu Gly Ile Phe Trp Phe Asp Thr Arg Glu Ile Gly Ile
 85 90 95
 Pro Ala Cys Phe Thr Gln Leu Phe Phe Ile His Thr Leu Ser Ser Met
 100 105 110
 Glu Ser Ser Val Leu Leu Ser Met Ser Ile Asp Arg Ser Val Ala Val
 115 120 125
 Cys Asn Pro Leu His Asp Ser Thr Val Leu Thr Pro Ala Cys Ile Val
 130 135 140
 Lys Met Gly Leu Ser Ser Val Leu Arg Ser Ala Leu Leu Ile Leu Pro
 145 150 155 160
 Leu Pro Phe Leu Leu Lys Arg Phe Gln Tyr Cys His Ser His Val Leu
 165 170 175
 Ala His Ala Tyr Cys Leu His Leu Glu Ile Met Lys Leu Ala Cys Ser
 180 185 190
 Ser Ile Ile Val Asn His Ile Tyr Gly Leu Phe Val Val Ala Cys Thr
 195 200 205
 Val Gly Val Asp Ser Leu Leu Ile Phe Leu Ser Tyr Ala Leu Ile Leu
 210 215 220
 Arg Thr Val Leu Ser Ile Ala Ser His Gln Glu Arg Leu Arg Ala Leu
 225 230 235 240
 Asn Thr Cys Val Ser His Ile Cys Ala Val Leu Leu Phe Tyr Ile Pro
 245 250 255
 Met Ile Gly Leu Ser Leu Val His Arg Phe Gly Glu His Leu Pro Arg
 260 265 270
 Val Val His Leu Phe Met Ser Tyr Val Tyr Leu Leu Val Pro Pro Leu
 275 280 285
 Met Asn Pro Ile Ile Tyr Ser Ile Lys Thr Lys Gln Ile Arg Gln Arg
 290 295 300
 Ile Ile Lys Lys Phe Gln Phe Ile Lys Ser Leu Arg Cys Phe Trp Lys
 305 310 315 320
 Asp

<210> 2167
 <211> 345
 <212> PRT
 <213> Homo sapien (7622326-3-3672-5330)

<220>
 <221> VARIANT
 <222> (1)...(345)
 <223> Xaa = Any Amino Acid

<400> 2167

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Met His Leu Pro Asn Ser Ser Glu Ile Ala Ile Thr Thr Phe Phe Leu
1      5      10      15
Ile Gly Ile Pro Gly Leu Glu His Ala His Ile Trp Ile Ser Val Pro
20      25      30
Ile Cys Leu Met Tyr Leu Val Ala Ile Leu Gly Asn Cys Thr Ile Leu
35      40      45
Phe Val Ile Arg Thr Glu Pro Ser Leu His Ala Pro Met Tyr Tyr Phe
50      55      60
Leu Ser Met Leu Ala Val Ser Asp Leu Gly Leu Ser Leu Ser Tyr Leu
65      70      75      80
Pro Thr Met Leu Arg Ile Phe Val Phe Asn Ala Thr Gly Ile Ser Ser
85      90      95
Asn Ala Arg Phe Ala Gln Glu Phe Phe Ile His Gly Phe Thr Asp Met
100      105      110
Glu Ser Ser Val Leu Leu Val Met Ser Phe Asp Arg Phe Leu Ala Ile
115      120      125
Cys His Pro Leu Arg Tyr Ile Ser Glu Val Leu Val Ser Cys Ile Leu
130      135      140
Thr Ser Ala Arg Val Ala Lys Met Gly Leu Leu Phe Leu Ile Lys Arg
145      150      155      160
Glu Thr Thr Leu Asn Ser Leu Lys Glu Thr Thr Asn Ser Val Leu Leu
165      170      175
Val Leu Pro Phe Pro Phe Thr Leu Thr Arg Leu Thr Tyr Cys Arg Lys
180      185      190
Ser Leu Leu Ser His Ser Tyr Cys Leu His Gln Asp Val Arg Lys Leu
195      200      205
Ala Cys Ser Asp Asn Thr Val Asn Phe Phe Tyr Gly Phe Phe Leu Ala
210      215      220
Leu Cys Met Met Ser Glu Ser Val Phe Ile Thr Val Ser Tyr Val Leu
225      230      235      240
Ile Leu Lys Thr Ile Met Gly Ile Gly Ser His Arg Glu Arg Leu Lys
245      250      255
Ala Leu Asn Thr Cys Val Ser His Ile Cys Ala Val Leu Ile Phe Tyr
260      265      270
Ala Pro Val Ile Ala Leu Ala Ser Met His Cys Phe Ala Ser Met Asn
275      280      285
Cys Phe Gly Lys His Arg Ser Pro Leu Ala Met Ile Leu Ile Ala Asp
290      295      300
Val Phe Leu Leu Val Pro Pro Leu Met Asn Pro Ile Val Tyr Cys Val
305      310      315      320
Lys Thr Gln Gln Ile His Glu Lys Val Leu Gly Lys Leu Gly Leu Gln
325      330      335
Gln Arg Cys Gln Xaa Thr Trp Tyr Lys
340      345

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<210> 2168

<211> 325

<212> PRT

<213> Homo sapien (7622326-4-1-4013)

<220>

<221> VARIANT

<222> (1)...(325)

<223> Xaa = Any Amino Acid

<400> 2168

```

Leu Thr Met Pro His Leu Ser Asn Thr Thr Ser Glu Phe Pro Ile Phe
1      5      10      15
Leu Leu Thr Gly Phe Pro Gly Leu Glu Ala Phe His Ile Trp Ile Ser
20      25      30
Ile Pro Phe Phe Leu Leu Ser Thr Val Ala Leu Leu Gly Asn Ser Met

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      35              40              45
Ile Leu Leu Val Val Ile Leu Glu Pro Asn Leu His Glu Pro Met Tyr
  50              55              60
Cys Phe Leu Phe Met Leu Ser Ala Ala Asp Leu Gly Leu Thr Leu Ser
  65              70              75              80
Thr Met Pro Thr Thr Leu Ser Val Leu Trp Phe Ser Ala Arg Glu Ile
      85              90              95
Ile Leu Asn Ala Cys Ile Ile Gln Leu Phe Phe Leu His Ser Ser Gly
      100              105              110
Phe Met Glu Ser Ser Val Leu Met Ala Met Ala Phe Asp Arg Phe Val
      115              120              125
Ala Ile Cys Arg Pro Leu Arg Tyr Ala Thr Ile Leu Thr Asp Ser Arg
      130              135              140
Ile Leu Lys Ile Gly Val Ala Ile Val Leu Arg Thr Leu Ile Ser Leu
      145              150              155              160
Ser Pro Ser Leu Phe Leu Ile Lys Arg Leu Ser Phe Cys Lys Val Asn
      165              170              175
Val Leu Ser His Ser Tyr Cys Phe His Pro Asp Ala Leu Lys Val Ala
      180              185              190
Cys Ser Asp Ser Arg Met Asn Ser Tyr Gly Gly Leu Ala Val Leu Ile
      195              200              205
Leu Val Thr Gly Val Gly Thr Pro Cys Val Ala Leu Ser Tyr Ile Leu
      210              215              220
Ile Ile His Ser Val Leu Asn Ile Ile Ser Ser Glu Gly Arg Arg Lys
      225              230              235              240
Ala Phe Asp Thr Cys Gly Ser His Ile Gly Ala Val Ala Val Phe Tyr
      245              250              255
Ile Pro Trp Val Val Leu Ser Val Val His Arg Phe Phe His Lys Ala
      260              265              270
Ser Pro Tyr Val His Pro Leu Leu Ser Asn Ile Tyr Phe Leu Gly Pro
      275              280              285
Ser Arg Leu Asn Pro Ile Ile Tyr Ser Val Lys Thr Lys Gln Ile Arg
      290              295              300
Arg Ala Ile Leu Lys Leu Phe Gln Thr Lys Ser Lys Glu Met Xaa Trp
      305              310              315              320
Gly Leu Phe Phe Leu
      325

```

<210> 2169

<211> 319

<212> PRT

<213> Homo sapien (7622326-7-11006-13674)

<220>

<221> VARIANT

<222> (1)...(319)

<223> Xaa = Any Amino Acid

<400> 2169

```

Met Ser Pro Leu Asn Asp Thr Lys Met Glu Val Leu Arg Phe Leu Leu
  1              5              10              15
Ile Gly Ile Thr Gly Leu Glu Lys Ser Arg Thr Trp Ile Ser Ile Pro
      20              25              30
Phe Leu Ser Val Tyr Leu Leu Ser Trp Met Gly Asn Phe Thr Val Leu
      35              40              45
Phe Phe Ile Lys Thr Glu Gln Ser Leu His Glu Pro Met Tyr Tyr Leu
      50              55              60
Leu Ser Met Leu Ser Ile Ser Asp Leu Gly Leu Ser Leu Ser Ser Leu
      65              70              75              80
Pro Ile Thr Leu Gly Leu Phe Leu Phe Asp Val His Glu Ile His Ala
      85              90              95

```

Ala Pro Cys Phe Ala Xaa Glu Phe Phe Ile His Leu Phe Thr Val Ser
 100 105 110
 Glu Ala Ser Val Leu Ser Val Met Ala Phe Asp Trp Tyr Val Ala Ile
 115 120 125
 His Ser Pro Leu Arg Tyr Ser Thr Ile Leu Thr Ser Pro Arg Ala Ile
 130 135 140
 Lys Thr Gly Val Leu Leu Thr Ser Lys Asn Val Leu Leu Ile Leu Pro
 145 150 155 160
 Leu Pro Phe Leu Leu Gln Arg Leu Arg Tyr Cys His Gln Asn Leu Leu
 165 170 175
 Ser His Ser Tyr Cys Leu His Gln Asp Val Met Lys Leu Met Cys Ser
 180 185 190
 Asp Asn Thr Val Asn Val Val Tyr Gly Leu Cys Ala Gly Leu Ser Thr
 195 200 205
 Met Leu Asp Leu Val Phe Ile Thr Phe Ser Xaa Ile Met Ile Leu Arg
 210 215 220
 Ala Val Leu Gly Ile Ala Thr Pro Arg Gln Gln Phe Lys Ala Leu Asn
 225 230 235 240
 Thr Cys Ile Ser His Ile Cys Ala Val Leu Ile Phe Tyr Val Pro Met
 245 250 255
 Leu Ser Ala Ala Met Leu His Gln Phe Ala Arg Asp Val Ser Pro Met
 260 265 270
 Ile His Val Leu Met Ala Asp Ile Phe Leu Leu Val Pro Pro Leu Leu
 275 280 285
 Asn Pro Ile Val Tyr Cys Val Lys Thr His Gln Ile Arg Glu Lys Val
 290 295 300
 Val Gly Lys Leu Cys Pro Lys Val Ser Xaa Ser Lys Glu Xaa Glu
 305 310 315

<210> 2170

<211> 323

<212> PRT

<213> Homo sapien (7622326-8-11210-13439)

<400> 2170

Met Ser Thr Leu Pro Thr Gln Ile Ala Pro Asn Ser Ser Thr Ser Met
 1 5 10 15
 Ala Pro Thr Phe Leu Leu Val Gly Met Pro Gly Leu Ser Gly Ala Pro
 20 25 30
 Ser Trp Trp Thr Leu Pro Leu Ile Ala Val Tyr Leu Leu Ser Ala Leu
 35 40 45
 Gly Asn Gly Thr Ile Leu Trp Ile Ile Ala Leu Gln Pro Ala Leu His
 50 55 60
 Arg Pro Met His Phe Phe Leu Phe Leu Leu Ser Val Ser Asp Ile Gly
 65 70 75 80
 Leu Val Thr Ala Leu Met Pro Thr Leu Leu Gly Ile Ala Leu Ala Gly
 85 90 95
 Ala His Thr Val Pro Ala Ser Ala Cys Leu Leu Gln Met Val Phe Ile
 100 105 110
 His Val Phe Ser Val Met Glu Ser Ser Val Leu Leu Ala Met Ser Ile
 115 120 125
 Asp Arg Ala Leu Ala Ile Cys Arg Pro Leu His Tyr Pro Ala Leu Leu
 130 135 140
 Thr Asn Gly Val Ile Ser Lys Ile Ser Leu Ala Ile Ser Phe Arg Cys
 145 150 155 160
 Leu Gly Leu His Leu Pro Leu Pro Phe Leu Leu Ala Tyr Met Pro Tyr
 165 170 175
 Cys Leu Pro Gln Val Leu Thr His Ser Tyr Cys Leu His Pro Asp Val
 180 185 190
 Ala Arg Leu Ala Cys Pro Glu Ala Trp Gly Ala Ala Tyr Ser Leu Phe
 195 200 205

Val Val Leu Ser Ala Met Gly Leu Asp Pro Leu Leu Ile Phe Phe Ser
 210 215 220
 Tyr Gly Leu Ile Gly Lys Val Leu Gln Gly Val Glu Ser Arg Glu Asp
 225 230 235 240
 Arg Trp Lys Ala Gly Gln Thr Cys Ala Ala His Leu Ser Ala Val Leu
 245 250 255
 Leu Phe Tyr Ile Pro Met Ile Leu Leu Ala Leu Ile Asn His Pro Glu
 260 265 270
 Leu Pro Ile Thr Gln His Thr His Thr Leu Leu Ser Tyr Val His Phe
 275 280 285
 Leu Leu Pro Pro Leu Ile Asn Pro Ile Leu Tyr Ser Val Lys Met Lys
 290 295 300
 Glu Ile Arg Lys Arg Ile Leu Asn Arg Leu Gln Pro Arg Lys Val Gly
 305 310 315 320
 Gly Ala Gln

<210> 2171

<211> 328

<212> PRT

<213> Homo sapien (7631097-4-2553-4836)

<220>

<221> VARIANT

<222> (1)...(328)

<223> Xaa = Any Amino Acid

<400> 2171

Met Leu Pro Ser Gln Thr Tyr Val Asn Ile Ser Phe Phe Gln Pro Pro
 1 5 10 15
 Ala Leu Leu Met Ile Gly Ile Pro Gly Leu Glu Ala Val His Gly Trp
 20 25 30
 Leu Ala Ile Pro Phe Ser Ser Met Tyr Thr Val Ala Leu Pro Gly Asn
 35 40 45
 Cys Leu Ile Leu Leu Ala Val Lys Arg Asn Pro Ser Leu His Gln Pro
 50 55 60
 Met Cys Tyr Phe Leu Ser Met Leu Ala Leu Pro Lys Ala Gly Leu Thr
 65 70 75 80
 Leu Ser Thr Leu Pro Ile Thr Leu Ala Val Leu Trp Phe Asp His Arg
 85 90 95
 Leu Met Gly Phe Asn Ala Cys Leu Val Gln Met Phe Phe Leu His Ser
 100 105 110
 Ser Val Val Glu Ser Ser Val Leu Ala Ile Ser Phe Asp His Phe
 115 120 125
 Val Ala Ile Ser Asn Pro Leu His Tyr Ala Ala Val Leu Thr Asn Ser
 130 135 140
 Val Ile Ile Arg Ile Gly Leu Ala Ile Val Ala Arg Ser Tyr Leu Val
 145 150 155 160
 Pro Leu Pro Val Pro Phe Pro Val Lys Ser Leu Asn Phe Cys Pro Gly
 165 170 175
 Asp Asn Ile Pro Ser His Ser Phe Cys Phe His Pro Asp Val Met Arg
 180 185 190
 Arg Ala Cys Ala Asp Ile Thr Ile Asn Ile Cys Tyr Gly Val Tyr Val
 195 200 205
 Val Val Ser Thr Gly Gly Leu Asp Ser Leu Leu Ile Phe Leu Ser Tyr
 210 215 220
 Thr Phe Ile Leu His Thr Val Met Gly Leu Ala Ala Pro Arg Glu Arg
 225 230 235 240
 Ile Trp Ala Leu Asn Thr Cys Val Ser His Ile Pro Ala Val Phe Val
 245 250 255
 Phe Phe Ile Pro Gly Ile Thr Val Ser Met Ile His His Phe Gly Arg

260 265 270
 His Leu Pro His Ile Val His Ala Leu Val Thr Tyr Val Tyr Leu Val
 275 280 285
 Met Pro Ser Val Leu His Pro Ile Ile Tyr Ser Met Lys Ser Lys Pro
 290 295 300
 Ile Arg Glu Ala Ile Leu Arg Met Leu Met Gly Arg Ser Gln Gly Xaa
 305 310 315 320
 Xaa Asn Tyr Lys Ile Leu Xaa Gly
 325

<210> 2172

<211> 278

<212> PRT

<213> Homo sapien (7631097-7-11130-14291)

<400> 2172

Met Tyr Ala Leu Ala Thr Leu Gly Asn Leu Thr Ile Val Leu Ile Ile
 1 5 10 15
 Arg Val Glu Arg Arg Leu His Glu Pro Met Tyr Leu Phe Leu Ala Met
 20 25 30
 Leu Ser Thr Ile Asp Leu Val Leu Ser Ser Ile Thr Met Pro Lys Met
 35 40 45
 Ala Ser Leu Phe Leu Met Gly Ile Gln Glu Ile Glu Phe Asn Ile Cys
 50 55 60
 Leu Ala Gln Met Phe Leu Ile His Ala Leu Ser Ala Val Glu Ser Ala
 65 70 75 80
 Val Leu Leu Ala Met Ala Phe Asp Arg Phe Val Ala Ile Cys His Pro
 85 90 95
 Leu Arg His Ala Ser Val Leu Thr Gly Cys Thr Val Ala Lys Ile Gly
 100 105 110
 Leu Ser Ala Leu Thr Arg Gly Phe Val Phe Phe Phe Pro Leu Pro Phe
 115 120 125
 Ile Leu Lys Trp Leu Ser Tyr Cys Gln Thr His Thr Val Thr His Ser
 130 135 140
 Phe Cys Leu His Gln Asp Ile Met Lys Leu Ser Cys Thr Asp Thr Arg
 145 150 155 160
 Val Asn Val Val Tyr Gly Leu Phe Ile Ile Leu Ser Val Met Gly Val
 165 170 175
 Asp Ser Leu Phe Ile Gly Phe Ser Tyr Ile Leu Ile Leu Trp Ala Val
 180 185 190
 Leu Glu Leu Ser Ser Arg Arg Ala Ala Leu Lys Ala Phe Asn Thr Cys
 195 200 205
 Ile Ser His Leu Cys Ala Val Leu Val Phe Tyr Val Pro Leu Ile Gly
 210 215 220
 Leu Ser Val Val His Arg Leu Gly Gly Pro Thr Ser Leu Leu His Val
 225 230 235 240
 Val Met Ala Asn Thr Tyr Leu Leu Leu Pro Pro Val Val Asn Pro Leu
 245 250 255
 Val Tyr Gly Ala Lys Thr Lys Glu Ile Cys Ser Arg Val Leu Cys Met
 260 265 270
 Phe Ser Gln Gly Gly Lys
 275

<210> 2173

<211> 319

<212> PRT

<213> Homo sapien (7631097-8-20107-27103)

<400> 2173

Met Leu Gly Pro Ala Tyr Asn His Thr Met Glu Thr Pro Ala Ser Phe
 1 5 10 15

Leu Leu Val Gly Ile Pro Gly Leu Gln Ser Ser His Leu Trp Leu Ala
 20 25 30
 Ile Ser Leu Ser Ala Met Tyr Ile Thr Ala Leu Leu Gly Asn Thr Leu
 35 40 45
 Ile Val Thr Ala Ile Trp Met Asp Ser Thr Arg His Glu Pro Met Tyr
 50 55 60
 Cys Phe Leu Cys Val Leu Ala Ala Val Asp Ile Val Met Ala Ser Ser
 65 70 75 80
 Val Val Pro Lys Met Val Ser Ile Phe Cys Ser Gly Asp Ser Ser Ile
 85 90 95
 Ser Phe Ser Ala Cys Phe Thr Gln Met Phe Phe Val His Leu Ala Thr
 100 105 110
 Ala Val Glu Thr Gly Leu Leu Leu Thr Met Ala Phe Asp Arg Tyr Val
 115 120 125
 Ala Ile Cys Lys Pro Leu His Tyr Lys Arg Ile Leu Thr Pro Gln Val
 130 135 140
 Met Leu Gly Met Ser Met Ala Val Thr Ile Arg Ala Val Thr Phe Met
 145 150 155 160
 Thr Pro Leu Ser Trp Met Met Asn His Leu Pro Phe Cys Gly Ser Asn
 165 170 175
 Val Val Val His Ser Tyr Cys Lys His Ile Ala Leu Ala Arg Leu Ala
 180 185 190
 Cys Ala Asp Pro Val Pro Ser Ser Leu Tyr Ser Leu Ile Gly Ser Ser
 195 200 205
 Leu Met Val Gly Ser Asp Val Ala Phe Ile Ala Ala Ser Tyr Ile Leu
 210 215 220
 Ile Leu Arg Ala Val Phe Asp Leu Ser Ser Lys Thr Ala Gln Leu Lys
 225 230 235 240
 Ala Leu Ser Thr Cys Gly Ser His Val Gly Val Met Ala Leu Tyr Tyr
 245 250 255
 Leu Pro Gly Met Ala Ser Ile Tyr Ala Ala Trp Leu Gly Gln Asp Ile
 260 265 270
 Val Pro Leu His Thr Gln Val Leu Leu Ala Asp Leu Tyr Val Ile Ile
 275 280 285
 Pro Ala Thr Leu Asn Pro Ile Tyr Gly Met Arg Thr Lys Gln Leu
 290 295 300
 Leu Glu Gly Ile Trp Ser Tyr Leu Met His Phe Leu Phe Asp His
 305 310 315

<210> 2174

<211> 311

<212> PRT

<213> Homo sapien (7637231-2-1-2470)

<220>

<221> VARIANT

<222> (1)...(311)

<223> Xaa = Any Amino Acid

<400> 2174

Met Leu Thr Phe His Asn Val Cys Ser Val Pro Ser Ser Phe Trp Leu
 1 5 10 15
 Thr Gly Ile Pro Gly Leu Glu Ser Leu His Val Trp Leu Ser Ile Pro
 20 25 30
 Phe Gly Ser Met Tyr Leu Val Ala Val Val Gly Asn Val Thr Ile Leu
 35 40 45
 Ala Val Val Lys Ile Glu Arg Ser Leu His Gln Pro Met Tyr Phe Phe
 50 55 60
 Leu Cys Met Leu Ala Ala Ile Asp Leu Val Leu Ser Thr Ser Thr Ile
 65 70 75 80
 Pro Lys Leu Leu Gly Ile Phe Trp Phe Gly Ala Cys Asp Ile Gly Leu

```

      85      90      95
Asp Ala Cys Leu Gly Gln Met Phe Leu Ile His Cys Phe Ala Thr Val
      100      105      110
Glu Ser Gly Ile Phe Leu Ala Met Ala Phe Asp Arg Tyr Val Ala Ile
      115      120      125
Cys Asn Pro Leu Arg His Ser Met Val Leu Thr Tyr Thr Val Val Gly
      130      135      140
Arg Leu Gly Leu Val Ser Leu Leu Arg Gly Val Leu Tyr Ile Gly Pro
      145      150      155
Leu Pro Leu Met Ile Arg Leu Arg Leu Pro Leu Tyr Lys Thr His Val
      165      170      175
Ile Ser His Ser Tyr Cys Glu His Met Ala Val Val Ala Leu Thr Cys
      180      185      190
Gly Asp Ser Lys Val Asn Asn Val Tyr Gly Met Ser Ile Gly Phe Leu
      195      200      205
Val Leu Ile Met Glu Ser Val Asp Ser Asp Ala Ser Xaa Val Arg Ser
      210      215      220
Ile Arg Ala Val Met Gly Leu Ala Asn His Glu Asp Arg Ile Lys Thr
      225      230      235
Met Gly Thr Gly Glu Tyr His Ile Cys Ala Ile Met Ile Phe Arg Ile
      245      250      255
Pro Val Met Tyr Ile Pro Xaa Asp His Arg Asp Gly Gln Cys Val His
      260      265      270
His Pro Val His Asn Met Met Ala Arg Ile Tyr Ile Ile Ser His Pro
      275      280      285
Ser Ile Lys Pro Ser Val Xaa Asp Asp Arg Thr Lys Gln Ser Arg Glu
      290      295      300
Ser Tyr Ile Gln Arg Ala Arg
      305      310

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<210> 2175

<211> 117

<212> PRT

<213> Homo sapien (7637231-7-1-1398)

<400> 2175

```

Asn Ile Lys Gly Ile Ala Val Pro Met Phe Ile Glu Val Leu Asp Leu
 1      5      10      15
Phe Phe Ile Ile Leu Ser Tyr Ile Phe Ile Leu Gln Ala Val Leu Gln
      20      25      30
Leu Ser Ser Gln Glu Ala Arg Tyr Lys Ala Phe Gly Thr Cys Val Ser
      35      40      45
His Ile Gly Ala Ile Leu Ala Phe Tyr Thr Pro Ser Val Ile Ser Ser
      50      55      60
Val Met His Arg Val Ala Arg Cys Ala Ala Pro His Val His Ile Leu
      65      70      75      80
Leu Ala Asn Phe Tyr Leu Leu Phe Pro Pro Met Val Asn Pro Ile Ile
      85      90      95
Tyr Gly Val Lys Thr Lys Gln Ile Arg Glu Ser Val Leu Gly Val Phe
      100      105      110
Pro Arg Lys Asp Val
      115

```

<210> 2176

<211> 227

<212> PRT

<213> Homo sapien (7637775-10-2645-3375)

<220>

<221> VARIANT

<222> (1)...(227)

<223> Xaa = Any Amino Acid

<400> 2176

```

Gly Lys Glu Arg Glu Thr Arg Val Trp Arg Pro Arg Ala Gln Asp Arg
 1           5           10           15
Gly Val Ser Thr Arg His Ala Ala Arg Val Thr Ser Tyr Gln Glu Cys
          20           25           30
Gly Val Arg Gly Gly Gly Val Leu Cys Gly Ala Val Arg Pro Ser Pro
          35           40           45
Leu Asp Ala Gln Leu His Asn Val Ile Ala Tyr Arg Arg Thr Cys Phe
          50           55           60
Lys Asp Val Glu Ile Pro Asn Phe Val Trp Asp Pro Ser Gln Leu Pro
          65           70           75           80
Arg Leu Ala Cys Cys Gly Thr Phe Thr Asn Asn Ile Ile Met Tyr Phe
          85           90           95
Pro Ala Ala Ile Phe Gly Phe Leu Pro Ile Ser Gly Thr Leu Phe Ser
          100          105          110
Tyr Asp Lys Ile Val Phe Ser Ile Leu Arg Val Ser Ser Ser Gly Gly
          115          120          125
Lys His Lys Ala Phe Ser Thr Arg Gly Ser His Leu Ser Val Val Cys
          130          135          140
Xaa Phe Tyr Gly Thr Gly Ile Gly Gly Tyr Leu Ser Ser Asp Val Ser
          145          150          155          160
Ser Ser Pro Arg Lys Ala Ala Val Ala Ser Val Met Tyr Thr Val Ala
          165          170          175
Ile Pro Met Leu Asn Pro Phe Ile Tyr Ser Leu Arg Asn Arg Asp Ile
          180          185          190
Lys Ser Val Leu Arg Arg Pro His Gly Ser Thr Val Ser Ser Gln Tyr
          195          200          205
Leu Leu Ile Cys Ser Ile Pro Phe Val Val Trp Val Lys Lys Gly Ser
          210          215          220
Lys Val Lys
225

```

<210> 2177

<211> 316

<212> PRT

<213> Homo sapien (7655430-8-26100-29590)

<220>

<221> VARIANT

<222> (1)...(316)

<223> Xaa = Any Amino Acid

<400> 2177

```

Ile Ser Met Phe Ser Cys Asn Thr Ser Thr Ser Gly Gln Ser Thr Phe
 1           5           10           15
Leu Leu Thr Gly Phe Pro Gly Leu Glu Ala Ser His His Trp Val Ser
          20           25           30
Ile Pro Ile Asn Leu Phe Cys Val Val Ser Ile Leu Gly Asn Asn Ile
          35           40           45
Ile Leu Phe Leu Ile His Thr Asp Pro Ala Leu His Glu Pro Met Tyr
          50           55           60
Ile Phe Leu Ser Met Leu Ala Ala Ser Asp Leu Gly Leu Cys Ala Ser
          65           70           75           80
Thr Phe Pro Thr Met Val Arg Leu Phe Trp Leu Gly Ala Arg Glu Leu
          85           90           95
Pro Phe Asp Leu Cys Ala Ala Gln Met Phe Phe Ile His Thr Phe Thr
          100          105          110
Tyr Val Glu Ser Gly Val Leu Leu Ala Met Ala Phe Asp Arg Phe Ile
          115          120          125

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Ala Ile Arg Asp Pro Leu His Tyr Ala Ile Ile Thr Cys Ser Val
 130 135 140
 Thr Ala Glu Val Gly Thr Ala Ile Leu Val Arg Ala Val Leu Leu Asn
 145 150 155 160
 Leu Pro Gly Pro Ile Leu Leu Gln Gln Leu Leu Phe Pro Lys Ile Ser
 165 170 175
 Ala Leu Cys His Cys Tyr Cys Leu His Cys Asp Leu Val Gly Leu Ala
 180 185 190
 Cys Ser Asp Thr Gln Ile Asn Ser Leu Val Gly Leu Val Ser Ile Leu
 195 200 205
 Phe Ser Leu Cys Leu Asp Ser Phe Leu Ile Met Leu Ser Tyr Ala Leu
 210 215 220
 Ile Leu Xaa Thr Val Leu Gly Ile Ala Ser Pro Gly Glu Arg Leu Lys
 225 230 235 240
 Ala Leu Asn Thr Cys Val Ser His Leu Cys Ile Val Leu Ile Phe Tyr
 245 250 255
 Leu Pro Ile Ile Gly Leu Ser Val Leu His Arg Val Lys Lys His Asp
 260 265 270
 Tyr Pro Ala Leu Ala Val Leu Met Ala Asn Leu His Phe Leu Val Pro
 275 280 285
 Pro Phe Met Asn Pro Ile Val Tyr Cys Ile Lys Ser Arg Gln Ile Arg
 290 295 300
 Gln Ser Leu Leu Lys His Phe Gln Gln Lys Arg Ile
 305 310 315

<210> 2178

<211> 154

<212> PRT

<213> Homo sapien (7657777-15-1-798)

<220>

<221> VARIANT

<222> (1)...(154)

<223> Xaa = Any Amino Acid

<400> 2178

Cys Thr Met Cys Val Trp Leu Leu Ala Xaa Asp Arg Gln Ile His Ile
 1 5 10 15
 His Ser His Ser Asn Lys Pro Lys Gln Val Thr His Pro Met Cys Phe
 20 25 30
 Trp Asp Lys Asp Val His Ser Ser Trp Ala Trp Gly Cys Gly Tyr Arg
 35 40 45
 Lys Gly Asn Lys Phe Phe Leu Ser Tyr Asp Thr Leu Cys Pro Pro Lys
 50 55 60
 Val Ile His Pro Phe Arg Xaa Gln Leu Phe Leu Ser Ser Ser Asp Ile
 65 70 75 80
 Ile Asn Asp Pro His Ile Asp Lys His Asp Ser Thr Leu Ile Thr Leu
 85 90 95
 Xaa Ala Phe Tyr Thr Ile Phe Tyr Lys Pro Thr Met Leu His Leu Phe
 100 105 110
 Ser Glu Ile Leu Ser Met Ile Tyr Phe Met Gly Thr Lys Lys Asn Glu
 115 120 125
 Xaa Lys Pro Arg Lys Lys Asp Cys Glu Ser His Xaa Lys Gly Leu Glu
 130 135 140
 Xaa Met Gly Gln Ile Ile Ile Leu Phe Tyr
 145 150

<210> 2179

<211> 170

<212> PRT

<213> Homo sapien (7657777-22-544-1713)

<220>

<221> VARIANT

<222> (1)...(170)

<223> Xaa = Any Amino Acid

<400> 2179

```

His Thr Gln Pro Arg Gly Leu Thr Arg Val Xaa Glu Phe Leu Leu Leu
 1           5           10           15
Gly Leu Ser Gln Asp Pro Gln Leu Gln Pro Val Leu Ser Gly Leu Ser
          20           25           30
Leu Cys Met Cys Leu Gly Thr Gln Leu Gly Asn Leu Leu Ile Ile Leu
          35           40           45
Gly Val Ser Ser Asp Ser His Leu His Thr Pro Met Tyr Ser Phe Leu
          50           55           60
Ser Asn Leu Ser Gly Ala Asp Ile Ser Phe Thr Ser Thr Thr Gly Pro
65           70           75           80
Lys Leu Ile Val Asp Ile His Ser Tyr Thr Arg Asp Ile Ser Tyr Ala
          85           90           95
Arg Cys Leu Thr His Thr Pro Leu Phe Ala Ile Phe Gly Gly Val Glu
          100          105          110
Arg Asp Met Leu Leu Arg Val Met Gly Tyr Asp Arg Val Val Asp Ile
          115          120          125
Cys Asp Pro Leu Tyr His Ser His Ala Met Asn Pro Cys Val Cys Gly
          130          135          140
Ser Leu Asp Leu Trp Ser Leu Phe Phe Leu Thr Leu Leu Tyr Thr His
145          150          155          160
Leu His Asn Ser Ile Ala Leu His Met Thr
          165          170

```

<210> 2180

<211> 198

<212> PRT

<213> Homo sapien (7657777-42-1-597)

<220>

<221> VARIANT

<222> (1)...(198)

<223> Xaa = Any Amino Acid

<400> 2180

```

Met Asn Pro Cys Leu Cys Gly Phe Arg Val Val Val Ser Phe Phe Phe
 1           5           10           15
His Ser Leu Leu Gly Ala Gln Val His Asn Leu Ser Ala Ser Gln Met
          20           25           30
Thr Cys Phe Glu Tyr Val Glu Ile His Asn Phe Leu Trp Ala Leu Ser
          35           40           45
Gln Leu Pro His Arg Ala Trp Cys Asp Thr Phe Pro Asn Asn Ile Ile
          50           55           60
Val Tyr Phe Pro Ala Ala Ile Phe Gly Phe Leu Pro Ile Ala Gly Thr
65           70           75           80
Leu Phe Ser Xaa Tyr Glu Ser Val Ser Ser Ile Glu Arg Val Ser Ser
          85           90           95
Xaa Gly Gly Glu Tyr Lys Ala Phe Pro Thr Cys Gly Ser His Leu Ser
          100          105          110
Val Val Cys Xaa Leu Tyr Gly Thr Gly Val Gly Gly His Leu Ser Ser
          115          120          125
Asp Val Ser Ser Ser Pro Arg Lys Ser Ala Val Ala Ser Val Met Tyr
          130          135          140
Thr Val Val Thr Pro Met Leu Asn Pro Phe Ile Tyr Ser Met Arg Asn
145          150          155          160

```

Arg Asp Thr Lys Ser Val Leu Arg Arg Pro His Gly Ser Thr Val Xaa
 165 170 175
 Phe Xaa Tyr Leu Leu Ile Cys Pro Ile Pro Phe Val Val Trp Val Lys
 180 185 190
 Lys Gly Arg Lys Val Lys
 195

<210> 2181

<211> 199

<212> PRT

<213> Homo sapien (7657788-15-11714-13012)

<220>

<221> VARIANT

<222> (1)...(199)

<223> Xaa = Any Amino Acid

<400> 2181

Leu Glu Met Xaa Leu Lys Ile Leu Tyr Leu Lys Asn Cys Ser Phe Xaa
 1 5 10 15
 Cys Asn Arg Pro Glu His Tyr Asn Xaa Lys Asn Cys Gly Xaa Phe Cys
 20 25 30
 Leu Leu Ile Thr Ile Ile Thr Phe Arg Ser Gly Ile Ile Asp Ile Cys
 35 40 45
 Leu His His His Lys Thr Ile Phe Ile Phe Lys Lys His Ser Gly Phe
 50 55 60
 Glu Gly Xaa Leu Trp Leu Arg Ile Xaa Asn Gln Ser Pro Lys Ser Trp
 65 70 75 80
 Ile Ser Ile Ala Cys Asp Cys Cys Val Ala Xaa Asn Met Lys Gln Val
 85 90 95
 Ala Ile Ser Cys His Ser Phe Ser Ser Val Lys Xaa Ser Pro Tyr Val
 100 105 110
 Ile Trp Lys Tyr Phe Cys Lys Xaa Tyr Lys His Ile Lys Asn Gly Arg
 115 120 125
 Asp Xaa Ile Xaa Leu Leu Thr Leu Lys Xaa Ile Lys His Leu Phe Val
 130 135 140
 Val Cys Ile Ile Tyr Thr Pro Cys Met Phe His Pro Phe Gln Asn Lys
 145 150 155 160
 Tyr Met Val Thr Glu Ser Leu Ile Xaa Ser Tyr Xaa Val Asp Pro Val
 165 170 175
 Ser Asn Pro Ala Leu Ile Thr Ala Arg Ser His Xaa Asn His Leu Val
 180 185 190
 Ile Ser Gln His Asn Asn Asn
 195

<210> 2182

<211> 324

<212> PRT

<213> Homo sapien (7658481-16-11475-15098)

<220>

<221> VARIANT

<222> (1)...(324)

<223> Xaa = Any Amino Acid

<400> 2182

Met Ser Asp Ser Asn Leu Ser Asp Asn His Leu Pro Asp Thr Phe Phe
 1 5 10 15
 Leu Thr Gly Ile Pro Gly Leu Glu Ala Ala His Phe Trp Ile Ala Ile
 20 25 30
 Pro Phe Cys Ala Met Tyr Leu Val Ala Leu Val Gly Asn Ala Ala Leu

35 40 45
 Ile Leu Val Ile Ala Met Asp Asn Ala Leu His Ala Pro Met Tyr Leu
 50 55 60
 Phe Leu Cys Leu Leu Ser Leu Thr Asp Leu Ala Leu Ser Ser Thr Thr
 65 70 75 80
 Val Pro Lys Met Leu Ala Ile Leu Trp Leu His Ala Gly Glu Ile Ser
 85 90 95
 Phe Gly Gly Cys Leu Ala Gln Met Phe Cys Val His Ser Ile Tyr Ala
 100 105 110
 Leu Glu Ser Ser Ile Leu Leu Ala Met Ala Phe Asp Arg Tyr Val Ala
 115 120 125
 Ile Cys Asn Pro Leu Arg Tyr Thr Thr Ile Leu Asn His Ala Val Ile
 130 135 140
 Gly Arg Ile Gly Phe Val Gly Leu Phe Arg Ser Val Ala Ile Val Ser
 145 150 155 160
 Pro Phe Ile Phe Leu Leu Arg Arg Leu Pro Tyr Cys Gly His Arg Val
 165 170 175
 Met Thr His Thr Tyr Cys Glu His Met Gly Ile Ala Arg Leu Ala Cys
 180 185 190
 Ala Asn Ile Thr Val Asn Ile Val Tyr Gly Leu Thr Val Ala Leu Leu
 195 200 205
 Ala Met Gly Leu Asp Ser Ile Leu Ile Ala Ile Ser Tyr Gly Phe Ile
 210 215 220
 Leu His Ala Val Phe His Leu Pro Ser His Asp Ala Gln His Lys Ala
 225 230 235 240
 Leu Ser Thr Cys Gly Ser His Ile Gly Ile Ile Leu Val Phe Tyr Ile
 245 250 255
 Pro Ala Phe Phe Ser Phe Leu Thr His Arg Phe Gly His His Glu Val
 260 265 270
 Pro Lys His Val His Ile Phe Leu Ala Asn Leu Tyr Val Leu Val Pro
 275 280 285
 Pro Val Leu Asn Pro Ile Leu Tyr Gly Ala Arg Thr Lys Glu Ile Arg
 290 295 300
 Ser Arg Leu Leu Lys Leu Leu His Leu Gly Lys Thr Ser Ile Xaa Met
 305 310 315 320
 Leu Ser Arg Ser

<210> 2183

<211> 317

<212> PRT

<213> Homo sapien (7658481-18-4217-6941)

<400> 2183

Met Ser Gln Val Thr Asn Thr Thr Gln Glu Gly Ile Tyr Phe Ile Leu
 1 5 10 15
 Thr Asp Ile Pro Gly Phe Glu Ala Ser His Ile Trp Ile Ser Ile Pro
 20 25 30
 Val Cys Cys Leu Tyr Thr Ile Ser Ile Met Gly Asn Thr Thr Ile Leu
 35 40 45
 Thr Val Ile Arg Thr Glu Pro Ser Val His Gln Arg Met Tyr Leu Phe
 50 55 60
 Leu Ser Met Leu Ala Leu Thr Asp Leu Gly Leu Thr Leu Thr Thr Leu
 65 70 75 80
 Pro Thr Val Met Gln Leu Leu Trp Phe Asn Val Arg Arg Ile Ser Ser
 85 90 95
 Glu Ala Cys Phe Ala Gln Phe Phe Phe Leu His Gly Phe Ser Phe Met
 100 105 110
 Glu Ser Ser Val Leu Leu Ala Met Ser Val Asp Cys Tyr Val Ala Ile
 115 120 125
 Cys Cys Pro Leu His Tyr Ala Ser Ile Leu Thr Asn Glu Val Ile Gly

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      130              135              140
Arg Thr Gly Leu Ala Ile Ile Cys Cys Cys Val Leu Ala Val Leu Pro
145              150              155              160
Ser Leu Phe Leu Leu Lys Arg Leu Pro Phe Cys His Ser His Leu Leu
      165              170              175
Ser Arg Ser Tyr Cys Leu His Gln Asp Met Ile Arg Leu Val Cys Ala
      180              185              190
Asp Ile Arg Leu Asn Ser Trp Tyr Gly Phe Ala Leu Ala Leu Ile
      195              200              205
Ile Ile Val Asp Pro Leu Leu Ile Val Ile Ser Tyr Thr Leu Ile Leu
      210              215              220
Lys Asn Ile Leu Gly Thr Ala Thr Trp Ala Glu Arg Leu Arg Ala Leu
225              230              235              240
Asn Asn Cys Leu Ser His Ile Leu Ala Val Leu Val Leu Tyr Ile Pro
      245              250              255
Met Val Gly Val Ser Met Thr His Arg Phe Ala Lys His Ala Ser Pro
      260              265              270
Leu Val His Val Ile Met Ala Asn Ile Tyr Leu Leu Ala Pro Pro Val
      275              280              285
Met Asn Pro Ile Ile Tyr Ser Val Lys Asn Lys Gln Ile Gln Trp Gly
      290              295              300
Met Leu Asn Phe Leu Ser Leu Lys Asn Met His Ser Arg
305              310              315

```

<210> 2184

<211> 315

<212> PRT

<213> Homo sapien (7658481-19-24037-28136)

<220>

<221> VARIANT

<222> (1)...(315)

<223> Xaa = Any Amino Acid

<400> 2184

```

Phe Ser Gln Asn Leu Leu Ile Ser Gly Ser Gly Ser Phe Val Leu Leu
1      5      10      15
Gly Met Pro Gly Leu Glu Ala Leu His Ala Trp Leu Ser Val Leu Val
      20      25      30
Cys Leu Leu Tyr Met Ala Ala Leu Val Gly Asn Ala Leu Leu Val Gly
      35      40      45
Leu Val Val Thr Asp Lys Ala Leu Trp Ala Pro Met Tyr Gln Leu Leu
      50      55      60
Trp Leu Leu Ala Ala Ala Asp Phe Val Leu Ala Thr Ser Thr Val Pro
      65      70      75      80
Lys Ala Leu Ala Val Leu Trp Gly Leu Ser Ser Glu Ile Ser Phe Gly
      85      90      95
Gly Cys Leu Ala Gln Leu Phe Val Ala His Ser Val Asn His Cys His
      100      105      110
Ile Ala Glu Ser Ser Val Leu Leu Ser Thr Ala Val Asp Cys Gln Pro
      115      120      125
Leu Arg Tyr Gly Ala Leu Leu Ala Gln Phe Val Val Gly Leu Val Ala
      130      135      140
Leu Thr Thr Met Thr Arg Asp Val Cys Val Met Tyr Thr Leu Xaa Phe
      145      150      155      160
Leu Phe Lys Lys Leu Pro Tyr Cys Gly Gln Trp Ala Leu Thr His Thr
      165      170      175
Tyr Cys Glu His Met Gly Val Ala Cys Leu Ala Cys Gly Asp Thr Cys
      180      185      190
Pro Ile Ile Arg Tyr Gly Leu Ala Thr Thr Leu Leu Ser Pro Ala Leu
      195      200      205

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Asp Leu Gly Leu Ile Gly Ala Ser Tyr Ala Leu Ile Phe Arg Ala Val
 210 215 220
 Cys Arg Leu Pro Ser His Val Ala Cys His Lys Ala Leu Gly Asn Cys
 225 230 235 240
 Gly Thr Tyr Ala Ser Ile Ile Gly Leu Phe Tyr Thr Pro Ala Leu Phe
 245 250 255
 Ser Phe Leu Ala His Cys Phe Gly Cys His Thr Val Pro Asn His Ile
 260 265 270
 His Ile Leu Leu Ala Asn Leu Tyr Ala Val Val Phe Pro Ala Phe Asn
 275 280 285
 Pro Val Val Tyr Gly Val Gln Thr Gln Gln Ser Ser Glu Ala Gln Glu
 290 295 300
 Leu Ala Ser Thr Phe Leu Gly Arg Ser Ser Glu
 305 310 315

<210> 2185

<211> 320

<212> PRT

<213> Homo sapien (7658481-19-6742-9039)

<400> 2185

Met Pro Ser Ala Ser Ala Met Ile Ile Phe Asn Leu Ser Ser Tyr Asn
 1 5 10 15
 Pro Gly Pro Phe Ile Leu Val Gly Ile Pro Gly Leu Glu Gln Phe His
 20 25 30
 Val Trp Ile Gly Ile Pro Phe Cys Ile Ile Tyr Ile Val Ala Val Val
 35 40 45
 Gly Asn Cys Ile Leu Leu Tyr Leu Ile Val Val Glu His Ser Leu His
 50 55 60
 Glu Pro Met Phe Phe Phe Leu Ser Met Leu Ala Met Thr Asp Leu Ile
 65 70 75 80
 Leu Ser Thr Ala Gly Val Pro Lys Ala Leu Ser Ile Phe Trp Leu Gly
 85 90 95
 Ala Arg Glu Ile Thr Phe Pro Gly Cys Leu Thr Gln Met Phe Phe Leu
 100 105 110
 His Tyr Asn Phe Val Leu Asp Ser Ala Ile Leu Met Ala Met Ala Phe
 115 120 125
 Asp His Tyr Val Ala Ile Cys Ser Pro Leu Arg Tyr Thr Thr Ile Leu
 130 135 140
 Thr Pro Lys Thr Ile Ile Lys Ser Ala Met Gly Ile Ser Phe Arg Ser
 145 150 155 160
 Phe Cys Ile Ile Leu Pro Asp Val Phe Leu Thr Cys Leu Pro Phe
 165 170 175
 Cys Arg Thr Arg Ile Ile Pro His Thr Tyr Cys Glu His Ile Gly Val
 180 185 190
 Ala Gln Leu Ala Cys Ala Asp Ile Ser Ile Asn Phe Trp Tyr Gly Phe
 195 200 205
 Cys Val Pro Ile Met Thr Val Ile Ser Asp Val Ile Leu Ile Ala Val
 210 215 220
 Ser Tyr Ala His Ile Leu Cys Ala Val Phe Gly Leu Pro Ser Gln Asp
 225 230 235 240
 Ala Cys Gln Lys Ala Leu Gly Thr Cys Gly Ser His Val Cys Val Ile
 245 250 255
 Leu Met Phe Tyr Thr Pro Ala Phe Phe Ser Ile Leu Ala His Arg Phe
 260 265 270
 Gly His Asn Val Ser Arg Thr Phe His Ile Met Phe Ala Asn Leu Tyr
 275 280 285
 Ile Val Ile Pro Pro Ala Leu Asn Pro Met Val Tyr Gly Val Lys Thr
 290 295 300
 Lys Gln Ile Arg Asp Lys Val Ile Leu Leu Phe Ser Lys Gly Thr Gly
 305 310 315 320

<210> 2186
 <211> 315
 <212> PRT
 <213> Homo sapien (7658481-2-1-1440)

<220>
 <221> VARIANT
 <222> (1)...(315)
 <223> Xaa = Any Amino Acid

<400> 2186
 Met Gly Gly Phe Gly Thr Asn Ile Ser Ser Thr Thr Ser Phe Thr Leu
 1 5 10 15
 Thr Gly Phe Pro Glu Met Lys Gly Leu Glu His Trp Leu Ala Ala Leu
 20 25 30
 Leu Leu Leu Leu Cys Ala Ile Ser Phe Leu Gly Asn Ile Leu Ile Leu
 35 40 45
 Phe Ile Ile Lys Glu Glu Gln Ser Leu His Gln Pro Met Tyr Tyr Phe
 50 55 60
 Leu Ser Leu Phe Ser Val Asn Asp Leu Gly Val Ser Phe Ser Thr Leu
 65 70 75 80
 Pro Thr Val Leu Ala Ala Val Cys Phe His Ala Pro Glu Thr Thr Phe
 85 90 95
 Asp Ala Cys Leu Ala Gln Thr Phe Phe Ile His Phe Ser Ser Trp Thr
 100 105 110
 Glu Phe Gly Ile Leu Leu Ala Met Ser Phe Asp His Tyr Val Ala Ile
 115 120 125
 Cys Asn Pro Leu Arg Tyr Ala Thr Val Leu Thr Asp Val Arg Val Ala
 130 135 140
 His Asn Gly Ile Ser Ile Val Ile Arg Ser Phe Cys Met Val Phe Pro
 145 150 155 160
 Leu Pro Phe Leu Leu Lys Arg Leu Pro Phe Cys Lys Ala Ser Val Val
 165 170 175
 Leu Ser His Ser Tyr Cys Leu His Ala Asp Leu Ile Arg Leu Pro Cys
 180 185 190
 Gly Asp Thr Thr Ile Asn Ser Met Tyr Gly Leu Phe Ile Val Ile Ser
 195 200 205
 Ala Phe Gly Val Asp Ser Leu Leu Ile Leu Leu Ser Tyr Val Leu Ile
 210 215 220
 Leu His Ser Val Leu Ala Ile Ala Ser Arg Gly Glu Arg Leu Lys Thr
 225 230 235 240
 Leu Asn Thr Cys Val Ser His Ile Tyr Ala Val Leu Ile Phe Tyr Val
 245 250 255
 Pro Met Val Ser Val Ser Met Val His Arg Phe Gly Arg His Ala Pro
 260 265 270
 Glu Tyr Val His Lys Phe Met Ser Ser Leu Tyr Leu Pro Met Leu Tyr
 275 280 285
 Pro Ile Ile Tyr Ser Ile Lys Thr Lys Glu Ile Arg Arg Arg Leu His
 290 295 300
 Lys Met Leu Leu Gly Ala Lys Phe Xaa Ser Lys
 305 310 315

<210> 2187
 <211> 124
 <212> PRT
 <213> Homo sapien (7658497-19-2333-3610)

<220>
 <221> VARIANT
 <222> (1)...(124)

<223> Xaa = Any Amino Acid

<400> 2187

```

Leu Ile Leu Ser Ala Gln Ile Cys Arg Ala Leu Xaa Leu Ser Ile Phe
 1           5           10           15
Leu Val Arg Leu His Phe Lys Lys Leu Gly Pro Lys Ser Leu Asp Leu
           20           25           30
Tyr Phe Pro Gly Leu Gly Leu Lys Tyr Lys Ile Asn Ser Thr Asn Asn
           35           40           45
Tyr Arg Thr Ala Leu Glu Phe Xaa Val Phe Arg Gln Ala Val Xaa Leu
           50           55           60
Xaa Phe Thr Phe Phe Leu Phe Lys Tyr Ser Cys Leu Ser Lys Pro Gln
65           70           75           80
Xaa Glu Xaa Gly Ser Ser Asp Xaa Val Pro Cys Gln Tyr Ser Arg Cys
           85           90           95
Ser Glu His Asn Val Ala Leu Leu Ser Pro Gly Phe Ile Val Met Xaa
           100          105          110
Val Leu Val Gln Leu Pro Leu Phe Ser Phe Thr Ser
           115          120

```

<210> 2188

<211> 278

<212> PRT

<213> Homo sapien (7670214-14-2036-3224)

<400> 2188

```

Met Leu Leu Gly Asn Leu Ala Ile Ile Ser Phe Ile Cys Leu Asp Ser
 1           5           10           15
Arg Leu His Ser Pro Met Tyr Phe Phe Leu Cys Asn Phe Ser Leu Met
           20           25           30
Glu Met Val Val Thr Ser Thr Val Val His Arg Met Leu Ala Asp Leu
           35           40           45
Leu Ser Thr His Lys Thr Met Ser Leu Ala Lys Cys Leu Thr Gln Ser
           50           55           60
Phe Phe Tyr Phe Ser Leu Gly Ser Ala Asn Phe Leu Ile Leu Met Val
65           70           75           80
Met Ala Phe Asp Arg Tyr Val Ala Ile Cys His Pro Leu Arg Tyr Pro
           85           90           95
Thr Ile Thr Asn Gly Pro Val Cys Val Lys Leu Val Val Ala Cys Trp
           100          105          110
Val Val Gly Phe Leu Ser Ile Val Ser Pro Thr Leu Gln Lys Thr Arg
           115          120          125
Leu Trp Phe Cys Gly Pro Asn Ile Ile Gly His Tyr Phe Cys Asp Ser
           130          135          140
Ala Pro Leu Leu Lys Leu Ala Cys Ser Asp Thr Arg His Ile Glu Arg
145           150          155          160
Met Asp Leu Phe Leu Ser Leu Leu Phe Val Leu Thr Thr Met Leu Leu
           165          170          175
Ile Ile Leu Ser Tyr Ile Leu Ile Val Ala Ala Val Leu His Ile Pro
           180          185          190
Ser Ser Ser Gly Cys Gln Lys Ala Phe Ser Thr Cys Ala Ser His Leu
           195          200          205
Thr Val Val Val Leu Gly Tyr Gly Ser Ala Ile Phe Ile Tyr Val Arg
           210          215          220
Pro Gly Lys Gly His Ser Thr Tyr Leu Asn Lys Ala Val Ala Met Val
225           230          235          240
Thr Ala Met Val Thr Pro Phe Leu Asn Pro Phe Ile Phe Thr Phe Arg
           245          250          255
Asn Glu Lys Val Lys Glu Val Ile Glu Asp Val Thr Lys Arg Ile Phe
           260          265          270
Leu Gly Asp Pro Ala Ala

```

275

<210> 2189
 <211> 203
 <212> PRT
 <213> Homo sapien (7670214-23-12266-12905)

<220>
 <221> VARIANT
 <222> (1)...(203)
 <223> Xaa = Any Amino Acid

<400> 2189
 Pro Leu Ile Xaa Pro Asp Pro Phe Ile Phe Thr Gln Leu Cys Ser Phe
 1 5 10 15
 Leu Asn Lys Tyr Val Ala Ser Thr Arg Leu Asn Asp His Asn Ile Asp
 20 25 30
 Gln Ala Pro Xaa Ser Arg Ser Ile Ile Leu Asn Leu Cys Leu Ile Ser
 35 40 45
 Phe Gly Ile Lys Gly Met Trp Ser Asn Val Asn Ser Cys Phe Leu Ser
 50 55 60
 Ser Leu Pro Arg Glu Lys Glu Leu Gly Leu Lys Ser Glu Gly Asn Tyr
 65 70 75 80
 Ser Ser Ala Thr Gln Phe Cys Leu Leu Gly Phe Pro Gly Phe Glu Glu
 85 90 95
 Leu Pro His Phe Leu Leu Val Asn Phe Phe Phe His Leu Met Arg Leu
 100 105 110
 Met Gly Asn Ala Val Ile Tyr Met Val Arg Ile Asp Xaa Ser Leu Gln
 115 120 125
 Ser Pro Gly Asp Phe Phe Leu Ser Gln Leu Phe Ile Phe Ser His Ser
 130 135 140
 Leu Leu Met Asp Ile Ser Ile Val Ile Ala Ser Leu Ile Gln Ile Asp
 145 150 155 160
 Ser Tyr Ser Ser Ile Pro Ser Ala Ser Gly Gln Lys Lys Ser Phe Ser
 165 170 175
 Thr His Ala Ser His Phe Thr Cys Val Gly Ile Asp Tyr Asp Ser Cys
 180 185 190
 Leu Phe Leu Tyr Val Lys Pro Lys Gln Ile Trp
 195 200

<210> 2190
 <211> 321
 <212> PRT
 <213> Homo sapien (7671636-1-417-2747)

<220>
 <221> VARIANT
 <222> (1)...(321)
 <223> Xaa = Any Amino Acid

<400> 2190
 Phe Lys Arg Ser Ile Thr Phe Thr Pro Thr Thr Phe Thr Leu Val Gly
 1 5 10 15
 Ile Pro Gly Leu Glu Ala Glu His Tyr Trp Ile Ser Ile Pro Phe Cys
 20 25 30
 Leu Ile Tyr Thr Ile Ile Phe Pro Gly Asn Gly Ile Ile Leu His Ile
 35 40 45
 Ile Arg Ile Asp Ser Ser Leu His Gln Pro Met Tyr Tyr Phe Leu Ala
 50 55 60
 Met Pro Ala Phe Val Glu Leu Gly Val Ser Ala Ser Thr Met Pro Thr
 65 70 75 80

Val Leu Ser Ile Phe Leu Phe Gly Ile Asn Asp Val Ser Phe Gly Gly
 85 90 95
 Cys Leu Leu Gln Met Phe Ser Met His Ser Phe Thr Leu Met Glu Ser
 100 105 110
 Gly Val Leu Leu Ala Met Ser Val Asp Arg Phe Val Ala Ile Tyr Ser
 115 120 125
 Pro Leu Arg Tyr Thr Thr Ile Leu Thr Ile Ala Cys Ile Ser Gly Met
 130 135 140
 Gly Ala Ala Ile Ala Leu Arg Ser Val Met Leu Met Leu Pro Leu Leu
 145 150 155 160
 Phe Leu Leu Arg Arg Leu Pro Phe Cys Gly His Asn Thr Leu Thr His
 165 170 175
 Ser Tyr Cys Leu His Ser Asp Leu Ile Lys Leu Pro Cys Gly Asp Thr
 180 185 190
 Arg Pro Asn Ser Ile Leu Ala Leu Phe Val Ile Thr Phe Thr Phe Gly
 195 200 205
 Leu Asp Leu Leu Phe Ile Val Val Ser Tyr Val Leu Ile Leu His Thr
 210 215 220
 Val Leu Glu Ile Ala Ser Arg Ser Arg Ala Trp Gln Ala Leu Asn Thr
 225 230 235 240
 Cys Val Ser His Ile Cys Ala Val Leu Val Tyr Tyr Val Pro Met Ile
 245 250 255
 Ser Leu Ser Xaa Val His Arg Phe Gly Arg His Leu Pro Pro Leu Phe
 260 265 270
 Gln Thr Val Thr Ala Asn Ala Tyr Leu Phe Phe Pro Pro Val Val Asn
 275 280 285
 Pro Ile Val Tyr Ser Ile Lys Ile Lys Glu Ile Arg Asn Ser Val Val
 290 295 300
 Leu Thr Leu Ser Arg Lys Arg Gly Glu Phe Xaa Trp Arg Pro Lys Ile
 305 310 315 320
 Pro

<210> 2191

<211> 295

<212> PRT

<213> Homo sapien (7690091-1-489-1697)

<220>

<221> VARIANT

<222> (1)...(295)

<223> Xaa = Any Amino Acid

<400> 2191

Ile Gln Cys Lys Gly Xaa Xaa Lys Xaa Ile Lys Thr Phe Ser Val Thr
 1 5 10 15
 Pro Ile Leu Asn Gly Asn Arg Glu Ile Ala Arg Phe Leu Ser Asn Leu
 20 25 30
 Ser Leu Ala Gly Ile Gly Phe Pro Ser Thr Ile Val Ser Lys Met Ile
 35 40 45
 Val Asp Ile Gln Ser His Ser Arg Val Ile Ser Tyr Ala Gly Cys Leu
 50 55 60
 Thr Gln Val Ser Leu Phe Ala Val Phe Gly Cys Met Glu Asp Met Leu
 65 70 75 80
 Leu Ser Val Met Ala Tyr Asp Arg Phe Val Asp Ile Cys His Pro Leu
 85 90 95
 Asp Tyr Pro Val Ile Met Asn Pro Cys Phe Cys Gly Phe Leu Val Leu
 100 105 110
 Leu Ser Phe Phe Leu Ser Leu Leu Asp Ser Gln Leu His Asn Trp Ile
 115 120 125
 Ala Leu Gln Ile Thr Cys Phe Lys Asp Val Glu Ile Pro Asn Phe Phe

| | | |
|---|-----|-----|
| 130 | 135 | 140 |
| Cys Asp Pro Ser Gln Leu Pro His Leu Ala Cys Cys Asp Thr Phe Thr | | |
| 145 | 150 | 155 |
| Asn Asp Ile Val Met Tyr Phe Leu Ala Ala Ile Phe Gly Phe Leu Pro | | 160 |
| | 165 | 170 |
| Ile Ser Gly Thr Phe Phe Ser Tyr Tyr Lys Ile Val Ser Ser Ile Leu | | 175 |
| | 180 | 185 |
| Arg Val Ser Ser Ser Gly Gly Lys Tyr Lys Ala Phe Ser Thr Cys Gly | | 190 |
| | 195 | 200 |
| Ser His Leu Ser Val Val Cys Leu Phe Tyr Gly Thr Gly Phe Gly Gly | | 205 |
| | 210 | 215 |
| Asp Leu Ser Ser Asp Met Ser Ser Tyr Pro Arg Lys Gly Ala Val Ala | | 220 |
| 225 | 230 | 235 |
| Ser Val Met Tyr Thr Val Val Thr Pro Met Leu Asn Pro Phe Ile Tyr | | 240 |
| | 245 | 250 |
| Ser Arg Asn Arg Glu Ile Lys Ser Ala Leu Arg Gln Leu His Cys Arg | | 255 |
| | 260 | 265 |
| Ile Val Xaa Ser His Phe Leu Ile Ile Cys Ser Ile Pro Ser Val Val | | 270 |
| | 275 | 280 |
| Xaa Val Arg Lys Gly Ser Lys | | 285 |
| 290 | 295 | |

<210> 2192

<211> 197

<212> PRT

<213> Homo sapien (7705148-11-94-972)

<220>

<221> VARIANT

<222> (1)...(197)

<223> Xaa = Any Amino Acid

<400> 2192

| | |
|---|-----|
| Ala Ala Met Ala Xaa Asp Arg Tyr Ile Ala Ile Cys Asn Pro Leu Leu | |
| 1 | 5 |
| Tyr Thr Val Ile Met Ser Lys Lys Val Cys Cys Gln Leu Ala Ile Gly | 10 |
| | 20 |
| Ala Phe Leu Gly Gly Thr Met Ser Ser Ile Ile His Thr Thr Asn Thr | 25 |
| | 30 |
| Phe His Leu Ser Phe Cys Ser Arg Asp Ile Asn His Phe Phe Cys Asp | 35 |
| | 40 |
| Ile Ser Pro Leu Phe Ser Leu Ser Cys Thr Asp Thr Tyr Met His Asp | 45 |
| 65 | 50 |
| Ile Ile Leu Val Val Phe Ala Ser Phe Val Glu Ala Ile Cys Leu Leu | 55 |
| | 60 |
| Ser Val Leu Leu Ser Tyr Val Phe Ile Met Ala Ala Ile Leu Arg Thr | 65 |
| | 70 |
| Gly Ser Val Glu Gly Arg Arg Arg Gly Phe Ser Thr Cys Ala Ser His | 75 |
| | 80 |
| Leu Thr Val Val Thr Met Tyr His Gly Thr Leu Ile Phe Ile Tyr Leu | 85 |
| | 90 |
| Arg Pro Ser Thr Gly His Ser Leu Asp Ile Asp Lys Val Thr Ser Val | 95 |
| 145 | 100 |
| Phe Tyr Thr Leu Ile Ile Pro Met Leu Asn Pro Leu Ile Tyr Ser Leu | 105 |
| | 110 |
| Arg Asn Lys Asp Val Lys Asn Ala Phe Arg Lys Val Ile Gly Arg Lys | 115 |
| | 120 |
| Leu Leu Pro Xaa Gly | 125 |
| 195 | 130 |

<210> 2193

<211> 128
 <212> PRT
 <213> Homo sapien (7705148-13-12855-13510)

<220>
 <221> VARIANT
 <222> (1)...(128)
 <223> Xaa = Any Amino Acid

<400> 2193
 Ser Arg Ser Asp Thr Gln Val Asn Glu Leu Val Leu Phe Thr Val Phe
 1 5 10 15
 Gly Phe Ile Glu Leu Ser Thr Ile Ser Gly Val Phe Ile Ser Tyr Cys
 20 25 30
 Tyr Ile Ile Leu Ser Val Leu Glu Ile His Ser Ala Glu Gly Arg Phe
 35 40 45
 Lys Ala Leu Ser Thr Cys Thr Ser His Leu Ser Ala Val Ala Ile Phe
 50 55 60
 Gln Gly Thr Leu Leu Phe Met Tyr Phe Arg Pro Ser Ser Ser Tyr Ser
 65 70 75 80
 Leu Asp Gln Asp Lys Met Thr Ser Leu Phe Tyr Thr Leu Val Val Pro
 85 90 95
 Met Leu Asn Pro Leu Ile Tyr Ser Leu Arg Asn Lys Asp Val Lys Glu
 100 105 110
 Ala Leu Lys Lys Leu Lys Asn Lys Ile Leu Phe Xaa Gly Asn Ser Lys
 115 120 125

<210> 2194
 <211> 208
 <212> PRT
 <213> Homo sapien (7705148-18-30183-31440)

<220>
 <221> VARIANT
 <222> (1)...(208)
 <223> Xaa = Any Amino Acid

<400> 2194
 Met Glu Leu Glu Asn Gly Thr Val Lys Thr Gly Phe Phe Leu Leu Gly
 1 5 10 15
 Phe Ser Asp His Leu Glu Leu Gln Ser Leu Leu Phe Ala Glu Phe Phe
 20 25 30
 Ser Ile Tyr Ser Val Thr Leu Met Gly Asn Leu Gly Met Ile Leu Leu
 35 40 45
 Ile Thr Ile Ser Ser His Leu His Thr Pro Met Tyr Phe Phe Leu Cys
 50 55 60
 Val Leu Ser Phe Ile Asp Ala Cys Tyr Ser Ser Val Ile Ala Pro Lys
 65 70 75 80
 Leu Leu Val Asn Leu Val Ser Glu Lys Lys Thr Ile Ser Tyr Asn Gly
 85 90 95
 Cys Val Ala Gln Leu Tyr Phe Phe Cys Ser Leu Val Asp Thr Glu Ser
 100 105 110
 Phe Leu Leu Ala Ala Met Ala Xaa Asp Arg Tyr Ile Ala Ile Cys Asn
 115 120 125
 Pro Leu Leu Tyr Thr Val Ile Met Ser Lys Lys Val Cys Cys Gln Leu
 130 135 140
 Ala Ile Gly Ala Phe Leu Gly Gly Thr Met Ser Ser Ile Ile His Thr
 145 150 155 160
 Thr Asn Thr Phe His Leu S r Phe Cys Ser Arg Asp Ile Asn His Phe
 165 170 175
 Phe Cys Asp Ile Ser Pro Leu Phe Ser Leu Ser Cys Thr Asp Thr Tyr

180 185 190
 Met His Asp Ile Ile Leu Val Val Phe Ala Ser Phe Val Glu Ala Ile
 195 200 205

<210> 2195

<211> 188

<212> PRT

<213> Homo sapien (7705148-8-1-2633)

<400> 2195

Met Asp Trp Glu Asn Cys Ser Ser Leu Thr Asp Phe Phe Leu Leu Gly
 1 5 10 15
 Ile Thr Asn Asn Pro Glu Met Lys Val Thr Leu Phe Ala Val Phe Leu
 20 25 30
 Ala Val Tyr Ile Ile Asn Phe Ser Ala Asn Leu Gly Met Ile Val Leu
 35 40 45
 Ile Arg Met Asp Tyr Gln Leu His Thr Pro Met Tyr Phe Phe Leu Ser
 50 55 60
 His Leu Ser Phe Cys Asp Leu Cys Tyr Ser Thr Ala Thr Gly Pro Lys
 65 70 75 80
 Met Leu Val Asp Leu Leu Ala Lys Asn Lys Ser Ile Pro Phe Tyr Gly
 85 90 95
 Cys Ala Leu Gln Phe Leu Val Phe Cys Ile Phe Ala Asp Ser Glu Cys
 100 105 110
 Leu Leu Leu Ser Val Met Ala Phe Asp Arg Tyr Lys Ala Ile Ile Asn
 115 120 125
 Pro Leu Leu Tyr Thr Val Asn Met Ser Ser Arg Val Cys Tyr Leu Leu
 130 135 140
 Leu Thr Gly Val Tyr Leu Val Gly Ile Ala Asp Ala Leu Ile His Met
 145 150 155 160
 Thr Leu Ala Phe Arg Leu Cys Phe Cys Gly Ser Asn Glu Ile Asn His
 165 170 175
 Phe Phe Cys Asp Ile Pro Pro Leu Leu Leu Ser
 180 185

<210> 2196

<211> 210

<212> PRT

<213> Homo sapien (7705159-18-2705-3893)

<220>

<221> VARIANT

<222> (1)...(210)

<223> Xaa = Any Amino Acid

<400> 2196

Cys His Pro Pro Leu Arg Trp Gly Ser Xaa Glu Pro Ala Glu Glu Glu
 1 5 10 15
 Gly Leu Ala Leu Ser Ser Arg Xaa Phe Phe Phe Phe Leu Ser Val Leu
 20 25 30
 Asp Ala Gln Leu His Asn Leu Ile Ala Leu Gln Met Thr Cys Phe Gln
 35 40 45
 Asp Ala Glu Ile Pro Asn Phe Phe Trp Asp Pro Ser Gln Leu Pro His
 50 55 60
 Leu Ala Cys Cys Asp Thr Phe Thr Asn Asn Ile Ile Met Tyr Phe Pro
 65 70 75 80
 Ala Val Ile Phe Gly Phe Leu Pro Ile Ser Gly Thr Leu Phe Ser Tyr
 85 90 95
 Tyr Lys Ile Val Ser Ser Ile Leu Ser Val Ser Ser Ser Arg Gly Gln
 100 105 110
 Tyr Lys Ala Phe Ser Thr Cys Gly Ser His Leu Ser Val Val Cys Xaa

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      115      120      125
Phe Tyr Gly Thr Gly Val Gly Gly Tyr Phe Ser Ser Asp Val Ser Ser
 130      135      140
Ser Pro Arg Lys Ala Ala Val Ala Ser Val Met Tyr Thr Val Ile Thr
145      150      155      160
Pro Met Leu Asn Pro Phe Ile Tyr Ser Leu Arg Asn Arg His Ile Lys
      165      170      175
Ser Val Leu Arg Arg Pro His Ser Ser Thr Val Gln Ser Pro Cys Leu
      180      185      190
Leu Asn Cys Ser Ile Pro Phe Val Val Trp Val Asn Lys Gly Ser Lys
      195      200      205
Val Lys
 210

```

<210> 2197
 <211> 186
 <212> PRT
 <213> Homo sapien (7708872-11-1-1518)

<220>
 <221> VARIANT
 <222> (1)...(186)
 <223> Xaa = Any Amino Acid

```

<400> 2197
Pro Ala His Pro Arg Ser Pro His His Pro Leu Phe Pro Pro Tyr Ile
 1      5      10      15
Tyr Leu Lys Asn Phe Phe Pro Thr Ile Phe Pro Gln Asn Leu Leu Ser
      20      25      30
Leu Leu Phe Thr Thr Val Phe Pro Pro Pro Thr Pro Asn Ile Phe
      35      40      45
Ser Pro Pro Ser Phe Pro His Cys Leu Phe Cys Asn Thr Phe Ser Cys
      50      55      60
Ser Leu Ile Leu Tyr Phe Pro Leu Ala Leu Thr Thr Leu Phe Thr Pro
      65      70      75      80
Pro Ser Thr Pro Lys Leu Phe Ser Pro Ser Tyr Arg Ser Ser His Thr
      85      90      95
Ala Val Ser Val Ala Ala Thr Asn Arg Ser Glu Ala Ser Cys Ala Cys
      100      105      110
Arg Ser His Ser Leu Gln His Ala Ala Val Ala Ser Pro Cys Pro Gly
      115      120      125
Pro Leu Ser Arg Glu Arg Ser Ser Pro Ala Arg Arg His Ala Xaa Ala
      130      135      140
Xaa Asn Gly Leu Thr Pro Leu Leu Ala Pro Phe Ile Tyr Xaa Gly Tyr
145      150      155      160
Ala Tyr Glu Val Pro Gly Leu Leu Phe Gln Asp Trp Val Arg Glu Asn
      165      170      175
Ala Glu Ala Tyr Ser Asp Trp Thr Leu Leu
      180      185

```

<210> 2198
 <211> 323
 <212> PRT
 <213> Homo sapien (7708872-16-23686-24654)

<220>
 <221> VARIANT
 <222> (1)...(323)
 <223> Xaa = Any Amino Acid

<400> 2198

```

Val Ala Cys Tyr Leu Pro Glu Leu Ser Val Gly Cys Pro Gly Gly Lys
1      5      10      15
Glu Asn Glu Thr Gly Val Gly Glu Phe Leu Leu Leu Ser Ile Thr Ser
20      25      30
Asp Ser Glu Lys Gln Gln Ala Leu Phe Trp Leu Phe Leu Cys Met His
35      40      45
Leu Val Thr Glu Ala Gly Asn Thr Pro Ile Ile Leu Gly Ile Gly Ser
50      55      60
Asn Pro Arg Leu His Thr Pro Thr Tyr Phe Phe Thr His Leu Ser Phe
65      70      75      80
Val Asn Ile Cys Phe Ile Thr Asn Leu Ile Pro Lys Leu Leu Val Asn
85      90      95
His Val Ala Gly Thr Gly Met Ile Thr Ile Ser Ser Pro Gln Cys Leu
100     105     110
Thr Gln Met Tyr Phe Leu Ile Ser Phe Ala Asn Val Asp Thr Phe Leu
115     120     125
Leu Ala Ile Met Ala Leu Asp His Tyr Val Ala Ile Cys Ser Ala Leu
130     135     140
Arg Tyr Cys Ser Ile Ile Thr Pro Glu Leu Cys Gln Gly Leu Ala Val
145     150     155     160
Leu Ala Xaa Ala Gly Ser Ser Leu Ile Ser Leu Val His Thr Val Ile
165     170     175
Met Ser Arg Leu Ala Phe Cys Ser Ser Ala Gln Ile Ser His Phe Tyr
180     185     190
Cys Asp Ala Tyr Leu Leu Met Lys Ile Ala Cys Ser His Thr Val Asn
195     200     205
Gln His Val Phe Leu Gly Ala Val Val Leu Phe Leu Ala Pro Cys Ala
210     215     220
Leu Ile Leu Val Ser Tyr Ile Arg Ile Ala Ala Ala Ile Leu Arg Ile
225     230     235     240
Pro Ser Pro Thr Arg Arg Arg Lys Ala Cys Ser Ile Cys Ser Ser His
245     250     255
Leu Ser Leu Val Thr Leu Phe Tyr Gly Thr Val Leu Gly Ile Cys Ile
260     265     270
Xaa Pro Pro Asp Ser Phe Ser Ala Gln Asp Thr Ile Ala Thr Ile Met
275     280     285
Tyr Thr Val Val Thr Ser Met Leu Asn Pro Phe Ile Tyr Ser Leu Met
290     295     300
Asn Lys Glu Val Gln Glu Ala Val Arg Arg Leu Phe Ser Arg Gly Ser
305     310     315     320
His Ser Ser

```

<210> 2199

<211> 328

<212> PRT

<213> Homo sapien (7715624-11-1-3301)

<220>

<221> VARIANT

<222> (1)...(328)

<223> Xaa = Any Amino Acid

<400> 2199

```

Leu Ser Ile Cys Phe Phe Leu Cys Ile Phe Ser Ala Asp Ile Xaa Ser
1      5      10      15
Met Leu Ala Met Glu Gln Asn Asn Gly Thr Glu Val Thr Glu Phe Ile
20      25      30
Leu Leu Gly Phe Ala Gly Gln His Lys Ser Trp His Ile Leu Ser Ile
35      40      45
Ala Phe Leu Ala Ile Tyr Val Val Thr Pro Val Gly Asn Ile Gly Met

```

50 55 60
 Ile Leu Leu Ile Lys Ile Asp Ala Ser Leu His Ile Pro Met Xaa Ile
 65 70 75 80
 Phe Leu Gln His Leu Ala Phe Val Asp Leu Cys Tyr Thr Ser Ala Ile
 85 90 95
 Thr Pro Lys Met Leu Lys Asn Phe Val Glu Thr Lys Lys Ser Ile Ser
 100 105 110
 Cys Ile Gly Cys Met Val Gln Leu Val Tyr Gly Thr Phe Ala Thr
 115 120 125
 Ser Asp Cys Tyr Ile Leu Ala Ala Met Ala Val Asp Arg Tyr Val Ala
 130 135 140
 Phe Cys Asn Pro Leu His Tyr Pro Gly Val Met Ser Gln Arg Leu Cys
 145 150 155 160
 Ile Lys Leu Leu Val Ser Ser Tyr Val Met Gly Phe Leu Asn Ala Ser
 165 170 175
 Ile Asn Ile Ser Phe Thr Phe Ser Leu Asn Phe Cys Lys Ser Lys Thr
 180 185 190
 Ile Asn His Phe Phe Cys Asp Glu Pro Pro Ile Ile Ala Leu Pro Cys
 195 200 205
 Ser Asn Ile Asp Leu Asn Ile Met Leu Leu Thr Val Phe Val Gly Leu
 210 215 220
 Asn Leu Met Cys Thr Val Met Val Val Ile Ile Ser Cys Ile Tyr Val
 225 230 235 240
 Leu Val Ala Ile Leu Arg Ile Ser Ser Ala Ala Gly Lys Lys Lys Ser
 245 250 255
 Leu Ser Thr Cys Ala Ser His Leu Thr Ala Val Thr Ile Phe Tyr Gly
 260 265 270
 Val Leu Ser Tyr Met Tyr Leu Cys His Arg Ile Asn Glu Ser Gln Lys
 275 280 285
 Gln Glu Lys Val Ala Ser Val Phe Tyr Gly Ile Ile Ile Pro Met Leu
 290 295 300
 Asn Pro Leu Ile Tyr Ser Gln Arg Asn Gln Asp Val Ile Glu Ala Ile
 305 310 315 320
 Lys Leu Thr Glu Lys Lys Tyr Phe
 325

<210> 2200

<211> 193

<212> PRT

<213> Homo sapien (7768677-1-106933-108798)

<220>

<221> VARIANT

<222> (1)...(193)

<223> Xaa = Any Amino Acid

<400> 2200

Phe Phe Asn Ile Thr Xaa Phe Val Pro Glu Val Met Lys Ser Leu Ser
 1 5 10 15
 Arg Ser Lys Asp Ile Ser Phe Asn Phe Cys Phe Xaa Phe Phe Phe
 20 25 30
 Ser Cys Gly Cys Thr Gly Leu Thr Glu Asp Ile Phe Val Val Phe Lys
 35 40 45
 Ser Phe Val Leu Phe Gly Val Leu Ser Xaa Ala His Leu Pro Val Lys
 50 55 60
 Lys Lys Lys Lys Arg Phe Cys Ser Leu Leu Tyr Xaa Thr Thr Ile Leu
 65 70 75 80
 Ile Cys Lys Trp Pro Lys Thr Ser Pro Phe Phe Thr Glu Phe Leu Ser
 85 90 95
 Leu Ser Arg Lys Asn Leu Lys Phe Gln Lys Asn Ile Glu Cys Glu Tyr
 100 105 110

Met Ile Ser Val Xaa Ala Thr Cys Ile Gly Asn Lys Tyr Leu Asn Cys
 115 120 125
 Glu Ile Tyr Leu Arg Ser Leu Thr Phe Pro Asn Ile Ser Ser Ile Val
 130 135 140
 Phe Phe Leu Leu Gln Ser Lys Tyr Met Phe Thr Phe Xaa Lys Tyr Arg
 145 150 155 160
 Glu Ala Gln Asn Trp Gly Lys Lys Pro Xaa Xaa Ile Pro Pro Ser Arg
 165 170 175
 Lys Lys Ala Ile Asn Leu Xaa Arg Ile Ser Ser Xaa Ser Leu Phe Cys
 180 185 190
 Val

<210> 2201

<211> 291

<212> PRT

<213> Homo sapien (7770649-26-5915-7266)

<400> 2201

Met Val Gly Ala Asn His Ser Val Val Ser Glu Phe Val Phe Leu Gly
 1 5 10 15
 Leu Thr Asn Ser Trp Glu Ile Arg Leu Leu Leu Val Phe Ser Ser
 20 25 30
 Met Phe Tyr Met Ala Ser Met Met Gly Asn Ser Leu Ile Leu Leu Thr
 35 40 45
 Val Thr Ser Asp Pro His Leu His Ser Pro Met Tyr Phe Leu Leu Ala
 50 55 60
 Asn Leu Ser Phe Ile Asp Leu Gly Val Ser Ser Val Thr Ser Pro Lys
 65 70 75 80
 Met Ile Tyr Asp Leu Phe Arg Lys His Glu Val Ile Ser Phe Gly Gly
 85 90 95
 Cys Ile Ala Gln Ile Phe Phe Ile His Val Ile Gly Gly Val Glu Met
 100 105 110
 Val Leu Leu Ile Ala Met Ala Phe Asp Arg Tyr Val Ala Ile Cys Lys
 115 120 125
 Pro Leu Gln Tyr Leu Thr Ile Met Ser Pro Arg Met Cys Met Phe Phe
 130 135 140
 Leu Val Ala Ala Trp Val Thr Gly Leu Ile His Ser Val Val Gln Leu
 145 150 155 160
 Val Phe Val Val Asn Leu Pro Phe Cys Gly Pro Asn Val Ser Asp Ser
 165 170 175
 Phe Tyr Cys Asp Leu Pro Arg Phe Ile Lys Leu Ala Cys Thr Asp Ser
 180 185 190
 Tyr Arg Leu Glu Phe Met Val Thr Ala Asn Ser Gly Phe Ile Ser Leu
 195 200 205
 Gly Ser Phe Phe Ile Leu Ile Ile Ser Tyr Val Val Ile Ile Leu Thr
 210 215 220
 Val Leu Lys His Ser Ser Ala Gly Leu Ser Lys Ala Leu Ser Thr Leu
 225 230 235 240
 Ser Ala His Val Ser Val Val Val Leu Phe Phe Gly Pro Leu Ile Phe
 245 250 255
 Val Tyr Thr Trp Pro Ser Pro Ser Thr His Leu Asp Lys Phe Leu Ala
 260 265 270
 Ile Phe Asp Ala Val Leu Thr Pro Val Leu Asn Pro Ile Ile Tyr Thr
 275 280 285
 Phe Arg Asn
 290

<210> 2202

<211> 92

<212> PRT

<213> Homo sapien (7939486-13-581-990)

<220>

<221> VARIANT

<222> (1)...(92)

<223> Xaa = Any Amino Acid

<400> 2202

```

Cys His Pro Ser His Tyr Phe Ser Ile Leu Ile Arg Phe Leu Cys Leu
 1           5           10           15
Tyr Leu Ser Leu Glu Met Gln Ala Ala Cys Ser Ser Ser Xaa Leu Thr
          20           25           30
His Thr Ile His Phe Met Lys His Lys Pro Val Leu Thr Asn Ser Leu
      35           40           45
Ser Ser Leu Phe Asn Leu Ser Asn Cys Asp Lys Asn His Thr Ala Leu
      50           55           60
Tyr Pro Val Xaa Pro Pro Met Ile Phe Asp Gln Lys Pro Asn Leu Phe
65           70           75           80
Phe Val Val Phe Thr Tyr Gly Gln Leu Gly Ser Thr
          85           90

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<210> 2203

<211> 168

<212> PRT

<213> Homo sapien (7996320-1-1-801)

<400> 2203

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Lys Gln Ser Ser Gly Asp Ser Gly Asn Gln Thr Thr Trp Leu Ile Leu
 1           5           10           15
Val Gly Phe Gly Glu Leu Gln Tyr Leu Gly Phe Leu Pro Phe Thr Leu
      20           25           30
Phe Leu Ala Ile Tyr Val Val Thr Val Val Gly Asn Ala Leu Ile Met
      35           40           45
Leu Ala Val Ala Ser Ser Arg Thr Leu His Pro Pro Met Tyr Phe Phe
      50           55           60
Leu Cys His Phe Ser Leu Leu Glu Ile Gly Tyr Thr Ser Asn Val Ile
65           70           75           80
Leu Trp Leu Leu Gln Ser Phe Leu Glu Gly Lys Glu Val Ile Ser Leu
          85           90           95
Val Ser Cys Leu Ala Gln Phe Tyr Val Phe Ser Ser Leu Ala Ala Ala
          100          105          110
Glu Cys Leu Leu Leu Ser Ala Val Ser Tyr Asp Cys Tyr Leu Ala Ile
          115          120          125
Cys Cys Pro Leu His Tyr Pro Ala Leu Met Ser Thr Trp Phe Cys His
          130          135          140
Cys Leu Ala Ala Gly Ala Trp Phe Ser Gly Phe Phe Ser Ser Ala Phe
145          150          155          160
Thr Met Ala Leu Ala Ala Pro Leu
          165

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<210> 2204

<211> 167

<212> PRT

<213> Homo sapien (7996320-11-500-1042)

<220>

<221> VARIANT

<222> (1)...(167)

<223> Xaa = Any Amino Acid

<400> 2204

Gly Leu Gly Gly Gly Gln Ser Cys Ala Asn Lys Lys Trp Gly Thr Gly
 1 5 10 15
 Leu Asn Leu Thr Pro Ser Phe His Gly Ser Arg Ser Asn Phe Cys Gly
 20 25 30
 Pro Xaa Ile Ser Ile His Ser Tyr Ser Leu Gln Ser Phe Leu Pro Val
 35 40 45
 Leu Ile Met Asn Leu Tyr Xaa Thr His Cys Ser Xaa Gln Ser Ser Pro
 50 55 60
 Ile Leu His Tyr Pro Val Gln Val Leu Gly Leu Gly Thr Leu Val Leu
 65 70 75 80
 Leu Leu Gly Ser Tyr Ser Cys Ile Ile Met Thr Ala Pro Gly Asp Gln
 85 90 95
 Leu Cys Xaa Gln Gly Arg Ser Lys Ile Leu Ser Thr Cys Ser Ser His
 100 105 110
 Tyr Leu Val Val Thr Ile Phe Tyr Thr Ser Gly Phe Leu Arg Tyr Val
 115 120 125
 Ile Leu Tyr Pro Xaa Ile Xaa Met Arg Asp Ile Pro Tyr Pro Lys Trp
 130 135 140
 Ser Pro Leu Ala Glu Glu Ser Ile Thr Lys Xaa Gln Asp Ile Gln Lys
 145 150 155 160
 Ala Xaa Ala Leu Val Leu Leu
 165

<210> 2205

<211> 294

<212> PRT

<213> Homo sapien (8052042-13-4893-7590)

<400> 2205

Ala Thr Tyr Asn Ser Ser Asn Thr Val Val Thr Glu Phe Val Phe Leu
 1 5 10 15
 Ser Phe Pro Glu Leu His His Leu Gln Gly Leu Leu Phe Val Ser Leu
 20 25 30
 Leu Ile Ile Tyr Val Val Thr Ile Leu Glu Asp Leu Ala Val Val Gly
 35 40 45
 Thr Ile Arg Ala Ser His His Leu His Ile Ser Thr His Leu Phe Leu
 50 55 60
 Ala Gln Leu Ser Val Leu Glu Thr Leu Tyr Thr Ser Val Thr Val Pro
 65 70 75 80
 Lys Leu Leu Ala Gly Leu Pro Ala Glu Arg Arg Pro Ser Ile Ser Phe
 85 90 95
 Ser Gly His Leu Thr Trp Leu Leu Leu Phe Leu Ser Leu Ser Ser
 100 105 110
 Glu Cys Val Leu Pro Ala Asn Met Asp Cys Asp Trp His Pro Val Ile
 115 120 125
 Cys His Leu Leu His Tyr Leu Ser Pro Ser Trp Thr Pro Cys Ser Trp
 130 135 140
 Leu Cys Leu His Leu Ala Ile Ser Ala Gln Leu Ser Ser Phe Pro Ala
 145 150 155 160
 Ser Phe Val Ser Thr Ala Leu Asn Ser Ser Leu Arg Leu Arg Ser Pro
 165 170 175
 Asp Val Leu Asn His Phe Cys Asp Ile Pro Pro Pro Leu Gly Leu Ser
 180 185 190
 Cys Ser Ser Thr Thr Thr Ile Glu Met Arg Thr Gln Ala Ala Gln Val
 195 200 205
 Ile Leu Ala Ala Ser Leu Gln Ala Thr Thr Val Ser Tyr Thr His Ile
 210 215 220
 Leu Ala Arg Ser Leu Arg Ile Pro Glu Arg Pro Ser Lys Leu Lys Ala
 225 230 235 240
 Phe Pro Thr Tyr Ala Ser His Leu Gly Cys Gly Ser Ser Asn Leu Ile
 245 250 255

Lys Leu Val Ser Gly Val Tyr Leu Val Gly Ile Pro Leu Leu Lys Pro
 260 265 270
 Ile Ile Tyr Cys Leu Arg Asn Cys Asn Ile Arg Glu Ala Leu Ala Lys
 275 280 285
 Leu Leu Gln Ala Leu Pro
 290

<210> 2206
 <211> 175
 <212> PRT
 <213> Homo sapien (8052042-5-3342-10968)

<220>
 <221> VARIANT
 <222> (1)...(175)
 <223> Xaa = Any Amino Acid

<400> 2206
 Leu Leu Met Ala Ala Asp Asn His Thr Arg Val Glu Ala Phe Val Leu
 1 5 10 15
 Gln Gly Phe Ser Glu Asp Leu Pro Leu Gln Gly Cys Cys Phe Ala Phe
 20 25 30
 Phe Leu Leu Tyr Leu Met Ala Leu Val Gly Asn Ile Leu Met Val Met
 35 40 45
 Ala Ile Ser Leu Asn Pro Gly Leu His Thr Pro Val Tyr Phe Phe Leu
 50 55 60
 Thr Asn Leu Ala Leu Leu Asp Ile Val Cys Thr Ser Met Asp Asn Ser
 65 70 75 80
 Arg Val Val Ala Val Leu Tyr Thr Val Val Ser Pro Thr Leu Asn Pro
 85 90 95
 Ser Pro Thr Pro Cys Gly Thr Arg Thr Tyr Gln Xaa His Xaa Gly Glu
 100 105 110
 Cys Phe Leu Ala Ser Gly Lys Arg Lys Gly Ser Phe Xaa Cys Glu Met
 115 120 125
 Phe Gln Val Leu Thr Asn Xaa Phe Gln His Met Thr Leu Arg Ile Ser
 130 135 140
 Cys Lys Gln Gln Gly Thr Arg Lys Xaa Leu Met Pro His Ile Tyr Lys
 145 150 155 160
 Xaa Cys Ala Pro Ala Arg Gly Cys His His Ser Met Trp Asn Ser
 165 170 175

<210> 2207
 <211> 275
 <212> PRT
 <213> Homo sapien (8072456-16-39461-40850)

<400> 2207
 Met Val Gly Asn Leu Leu Ile Trp Val Thr Thr Ile Gly Ser Pro Ser
 1 5 10 15
 Leu Gly Ser Leu Met Tyr Phe Phe Leu Ala Tyr Leu Ser Leu Met Asp
 20 25 30
 Ala Ile Tyr Ser Thr Ala Met Ser Pro Lys Leu Met Ile Asp Leu Leu
 35 40 45
 Cys Asp Lys Ile Ala Ile Ser Leu Ser Ala Cys Met Gly Gln Leu Phe
 50 55 60
 Ile Glu His Leu Leu Gly Gly Ala Glu Val Phe Leu Leu Val Val Met
 65 70 75 80
 Ala Tyr Asp Arg Tyr Val Ala Ile Ser Lys Pro Leu His Tyr Leu Asn
 85 90 95
 Ile Met Asn Arg Leu Val Cys Ile Leu Leu Leu Val Val Ala Met Ile
 100 105 110

Gly Gly Phe Val His Ser Val Val Gln Ile Val Phe Leu Tyr Ser Leu
 115 120 125
 Pro Ile Cys Gly Pro Asn Val Ile Asp His Ser Val Cys Asp Met Tyr
 130 135 140
 Pro Leu Leu Glu Leu Leu Cys Leu Asp Thr Tyr Phe Ile Gly Leu Thr
 145 150 155 160
 Val Val Ala Asn Gly Gly Ile Ile Cys Met Val Ile Phe Thr Phe Leu
 165 170 175
 Leu Ile Ser Cys Gly Val Ile Leu Asn Phe Leu Lys Thr Tyr Ser Gln
 180 185 190
 Glu Glu Arg His Lys Ala Leu Pro Thr Cys Ile Ser His Ile Ile Val
 195 200 205
 Val Ala Leu Val Phe Val Pro Cys Ile Phe Met Tyr Val Arg Pro Val
 210 215 220
 Ser Asn Phe Pro Phe Asp Lys Leu Met Thr Val Phe Tyr Ser Ile Ile
 225 230 235 240
 Thr Leu Met Leu Asn Pro Leu Ile Tyr Ser Leu Arg Gln Ser Glu Met
 245 250 255
 Lys Asn Ala Met Lys Asn Leu Trp Cys Glu Lys Leu Ser Ile Val Arg
 260 265 270
 Lys Arg Val
 275

<210> 2208

<211> 316

<212> PRT

<213> Homo sapien (8077072-13-9613-11523)

<220>

<221> VARIANT

<222> (1)...(316)

<223> Xaa = Any Amino Acid

<400> 2208

Met Val Ile Leu Ser Trp Glu Asn Gln Thr Met Arg Val Glu Phe Val
 1 5 10 15
 Leu Gln Gly Phe Ser Ser Ile Arg Gln Leu Asn Ile Phe Leu Phe Met
 20 25 30
 Ile Ile Leu Val Phe Tyr Ile Leu Thr Val Ser Gly Asn Ile Leu Ile
 35 40 45
 Val Leu Leu Val Leu Val Arg His His Leu His Thr Pro Met Tyr Phe
 50 55 60
 Leu Leu Val Asn Leu Ser Cys Leu Glu Ile Trp Tyr Thr Ser Asn Ile
 65 70 75 80
 Ile Pro Lys Met Leu Leu Ile Ile Ile Ala Glu Xaa Lys Thr Ile Ser
 85 90 95
 Val Ala Gly Trp Leu Ala Gln Phe Tyr Phe Phe Gly Ser Leu Ala Ala
 100 105 110
 Thr Glu Cys Leu Leu Leu Thr Val Met Ser Tyr Asp Arg Tyr Leu Ala
 115 120 125
 Ile Cys Gln Pro Leu Cys Tyr Arg Val Leu Met Thr Gly Pro Leu Cys
 130 135 140
 Ile Arg Leu Ala Ala Gly Ser Trp Phe Cys Cys Phe Leu Leu Thr Ala
 145 150 155 160
 Ile Thr Met Val Leu Leu Cys Arg Leu Thr Phe Cys Gly Pro Tyr Glu
 165 170 175
 Thr Asp His Phe Phe Cys Asp Phe Thr Pro Leu Val His Leu Ser Cys
 180 185 190
 Met Asp Thr Ser Val Thr Glu Thr Ile Ala Phe Ala Thr Ser Ser Ala
 195 200 205
 Val Thr Leu Ile Pro Phe Leu Leu Ile Val Ala Ser Tyr Ser Cys Val

210 215 220
 Leu Ser Ala Ile Leu Arg Ile Pro Ser Cys Thr Gly Gln Lys Lys Ala
 225 230 235 240
 Phe Ser Thr Cys Ser Ser His Leu Thr Val Val Ile Val Phe Tyr Gly
 245 250 255
 Thr Leu Ile Ala Thr Tyr Leu Val Pro Ser Ala Asn Ser Ser Gln Leu
 260 265 270
 Leu Cys Lys Gly Ser Ser Leu Leu Tyr Ile Ile Leu Thr Pro Met Phe
 275 280 285
 Asn Pro Ile Ile Tyr Ser Leu Arg Asn Arg Asp Ile His Glu Ala Leu
 290 295 300
 Lys Lys Cys Leu Arg Lys Lys Ser Gly Val Cys Leu
 305 310 315

<210> 2209

<211> 309

<212> PRT

<213> Homo sapien (8081198-24-6628-8036)

<400> 2209

Met Glu Asn Gln Asn Asn Val Thr Glu Phe Ile Leu Leu Gly Leu Thr
 1 5 10 15
 Glu Asn Leu Glu Leu Trp Lys Ile Phe Ser Ala Val Phe Leu Val Met
 20 25 30
 Tyr Val Ala Thr Val Leu Glu Asn Leu Leu Ile Val Val Thr Ile Ile
 35 40 45
 Thr Ser Gln Ser Leu Arg Ser Pro Met Tyr Phe Phe Leu Thr Phe Leu
 50 55 60
 Ser Leu Leu Asp Val Met Phe Ser Ser Val Val Ala Pro Lys Val Ile
 65 70 75 80
 Val Asp Thr Leu Ser Lys Ser Thr Thr Ile Ser Leu Lys Gly Cys Leu
 85 90 95
 Thr Gln Leu Phe Val Glu His Phe Phe Gly Gly Val Gly Ile Ile Leu
 100 105 110
 Leu Thr Val Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Lys Pro Leu
 115 120 125
 His Tyr Thr Ile Ile Met Ser Pro Arg Val Cys Cys Leu Met Val Gly
 130 135 140
 Gly Ala Trp Val Gly Gly Phe Met His Ala Met Ile Gln Leu Leu Phe
 145 150 155 160
 Met Tyr Gln Ile Pro Phe Cys Gly Pro Asn Ile Ile Asp His Phe Ile
 165 170 175
 Cys Asp Leu Phe Gln Leu Leu Thr Leu Ala Cys Thr Asp Thr His Ile
 180 185 190
 Leu Gly Leu Leu Val Thr Leu Asn Ser Gly Met Met Cys Val Ala Ile
 195 200 205
 Phe Leu Ile Leu Ile Ala Ser Tyr Thr Val Ile Leu Cys Ser Leu Lys
 210 215 220
 Ser Tyr Ser Ser Lys Gly Arg His Lys Ala Leu Ser Thr Cys Ser Ser
 225 230 235 240
 His Leu Thr Val Val Val Leu Phe Phe Val Pro Cys Ile Phe Leu Tyr
 245 250 255
 Met Arg Pro Val Val Thr His Pro Ile Asp Lys Ala Met Ala Val Ser
 260 265 270
 Asp Ser Ile Ile Thr Pro Met Leu Asn Pro Leu Ile Tyr Thr Leu Arg
 275 280 285
 Asn Ala Glu Val Lys Ser Ala Met Lys Lys Leu Trp Met Lys Trp Glu
 290 295 300
 Ala Leu Ala Gly Lys
 305

<210> 2210
 <211> 270
 <212> PRT
 <213> Homo sapien (8086488-18-2452-4090)

<400> 2210
 Met Glu Val Ser Gly Asn His Thr Ser Val Ala Met Phe Val Leu Leu
 1 5 10 15
 Gly Leu Ser Asp Glu Lys Glu Leu Gln Leu Ile Leu Phe Pro Val Phe
 20 30
 Leu Val Ile Tyr Leu Val Thr Leu Ile Trp Asn Met Gly Leu Ile Ile
 35 40 45
 Leu Ile Arg Ile Asp Ser His Leu Asn Thr Pro Met Tyr Phe Phe Leu
 50 55 60
 Ser Phe Leu Ser Phe Thr Asp Ile Cys Tyr Ser Ser Thr Ile Ser Pro
 65 70 75 80
 Arg Met Leu Ser Asp Phe Leu Lys Asp Lys Lys Thr Ile Ser Phe Leu
 85 90 95
 Ala Cys Ala Thr Gln Tyr Phe Leu Gly Ala Trp Met Ser Leu Ala Glu
 100 105 110
 Cys Cys Leu Leu Val Ile Met Ala Cys Asp Arg Tyr Val Ala Ile Gly
 115 120 125
 Ser Pro Leu Gln Tyr Ser Ala Ile Met Val Pro Ser Ile Cys Trp Lys
 130 135 140
 Met Val Ala Gly Val Cys Gly Gly Gly Phe Leu Ser Ser Leu Val His
 145 150 155 160
 Thr Val Pro Cys Phe Asn Leu Tyr Tyr Cys Gly Pro Asn Ile Ile Gln
 165 170 175
 His Phe Phe Cys Asn Thr Leu Gln Ile Ile Ser Leu Ser Cys Ser Asn
 180 185 190
 Pro Phe Ile Ser Gln Met Ile Leu Phe Leu Glu Ala Ile Phe Val Gly
 195 200 205
 Leu Gly Ser Leu Leu Val Ile Leu Leu Ser Tyr Gly Phe Ile Val Ala
 210 215 220
 Ser Ile Leu Lys Ile Ser Ser Thr Lys Cys Cys Ala Lys Ala Phe Asn
 225 230 235 240
 Thr Cys Ala Ser His Leu Ala Ala Val Ala Leu Phe Tyr Gly Thr Ala
 245 250 255
 Leu Ser Val Tyr Met His Pro Ser Ser Ser His Ser Met Lys
 260 265 270

<210> 2211
 <211> 161
 <212> PRT
 <213> Homo sapien (8096828-10-670-2127)

<220>
 <221> VARIANT
 <222> (1)...(161)
 <223> Xaa = Any Amino Acid

<400> 2211
 Gly Trp Lys Ser Ser Thr Phe Asn Ile Ser Cys Thr Lys Phe Phe Leu
 1 5 10 15
 Val Gly Phe Pro Gly Leu Arg Glu Trp Trp Pro Leu Leu Val Leu Pro
 20 25 30
 Leu Val Phe Leu Phe Val Thr Ile Ile Ser Ala Asn Ala Leu Val Ile
 35 40 45
 His Thr Val Val Ala Arg Gln Asn Leu His Gln Pro Thr Cys Met Leu
 50 55 60
 Ile Thr Val Leu Leu Ala Val Asn Ile Arg Ala Ala Thr Ala Val Met

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65          70          75          80
Pro Lys Met Leu Glu Gly Phe Val Tyr Tyr Ala Asn Pro Ile Ser Leu
          85          90          95
His Gly Arg Leu Ala Xaa Val Phe Phe Ile Tyr Phe Thr Leu Leu Leu
          100          105          110
Asp Tyr Asn Phe Leu Trp Pro Trp Pro Trp Thr Gly Tyr Phe Ala Ile
          115          120          125
Cys His Pro Leu Cys Phe Ser Asp Leu Met Thr Ser Gln Leu Leu Gly
          130          135          140
Leu Leu Ala Ile Leu Ala Phe Glu Gln Ser Pro Gly Ser Asp Pro Ala
145          150          155          160
Pro

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<210> 2212
 <211> 198
 <212> PRT
 <213> Homo sapien (8096828-22-1-1563)

<220>
 <221> VARIANT
 <222> (1)...(198)
 <223> Xaa = Any Amino Acid

```

<400> 2212
Val Ala Ile Cys His Pro Leu Cys Phe Gln Thr Glu Xaa Leu Pro Ser
1          5          10          15
Trp Leu Gly Leu Leu Ala Ile Leu Ala Leu Thr Gln Ser Trp Gly Val
          20          25          30
Thr Val Pro Leu Val Val Leu Thr Ala Lys Ala Asp Phe Cys Arg Thr
          35          40          45
Ala Val Ile Arg His Phe Thr Cys Glu Cys Ile Ala Leu Leu Ser Ile
          50          55          60
Ala Cys Gly Asp Leu Thr Phe Asn Asn Trp Leu Gly Leu Ala Met Cys
65          70          75          80
Leu Val Thr Val Ile Ser Asp Met Ala Leu Leu Gly Thr Ser Tyr Thr
          85          90          95
His Ile Ile Tyr Ala Ala Phe Arg Ile Ser Ser Trp Gly Ala Gln Ala
          100          105          110
Lys Ala Leu His Thr Cys Gly Ser His Leu Leu Val Ile Leu Ser Ile
          115          120          125
Tyr Val Ser Gly Leu Ser Thr Ser Ile Thr Phe Xaa Val Ala Lys Thr
          130          135          140
Val Ser Gln Asn Val Gln Asn Leu Leu Ser Ala Ile Tyr Leu Leu Leu
145          150          155          160
Pro Gly Ala Leu Asn Pro Val Ile Tyr Gly Val Arg Thr Arg Glu Ile
          165          170          175
Gln Gln His Val Glu Lys Met Leu Cys Glu Lys Glu Thr Ala Gln Lys
          180          185          190
Ala Gly Glu Lys Pro Lys
          195

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<210> 2213
 <211> 323
 <212> PRT
 <213> Homo sapien (8096945-19-338-2509)

<220>
 <221> VARIANT
 <222> (1)...(323)
 <223> Xaa = Any Amino Acid

<400> 2213

Gly Thr Leu Asn Leu Ser Ser Phe Asn Pro Gly Leu Phe Ile Leu Leu
 1 5 10 15
 Gly Ile Pro Gly Leu Glu Trp Phe Cys Ile Trp Met Gly Ile Leu Ser
 20 25 30
 Phe Thr Ser Tyr Leu Val Ser Leu Ala Gly Asn Val Ile Leu Leu Tyr
 35 40 45
 Leu Ile Thr Val Glu His Asn Leu His Lys Pro Met Phe Ser Phe Leu
 50 55 60
 Ser Ile Pro Ala Ser Ala Asn Leu Ile Leu Cys Ile Thr Tyr Phe Pro
 65 70 75 80
 Lys Thr Phe Gly Ile Phe Xaa Leu Lys Ala Gln Lys Ile Ile Phe Pro
 85 90 95
 Gly Cys Phe Thr Arg Phe Phe Phe Phe Gly Leu Leu His Phe Ser Phe
 100 105 110
 Phe Leu Asp Leu Ala Ile Leu Leu Gly Leu Ala Phe Asp His Tyr Met
 115 120 125
 Thr Ile Gly Phe Leu Leu Arg Tyr Thr Ser Gly Leu Thr Pro Arg Thr
 130 135 140
 Leu Gly Lys Ile Val Val Ser Ile Asp Xaa Arg Phe Asn Asn Ile Leu
 145 150 155 160
 Pro Ile Asp Phe Leu Gly Lys His Leu Pro Phe Cys Arg Thr His Ile
 165 170 175
 Asn Ser Asn Thr Tyr Cys Glu His Ile Gly Val Ala Leu Leu Ser Tyr
 180 185 190
 Ala Asp Ile Ser Ile Asn Ile Trp Tyr Asp Phe Thr Ile Leu Val Met
 195 200 205
 Thr Ile Ile Ser Asp Leu Ile Leu Thr Asp Ile Ser Tyr Thr Leu Thr
 210 215 220
 Leu His Ala Val Phe His Leu Pro Ser Ser Asp Ala Leu Leu Lys Ala
 225 230 235 240
 Leu Ser Thr Cys Gly Ser His Val Ser Val Ile Leu Met Leu Tyr Thr
 245 250 255
 Pro Thr Met Leu Ser Ala Leu Thr His His Phe Gly Gln Ser Ile Ser
 260 265 270
 Cys Thr Phe Tyr Ile Met Phe Val Gly Leu Tyr Arg Ala Ile Pro Pro
 275 280 285
 Val Leu Asn Ser Ile Ile Tyr Gly Val Lys Thr Lys Gln Ile Gly Asn
 290 295 300
 Lys Val Ile Leu Leu Phe Phe Leu Lys Gly Met Gln Xaa Tyr Glu Asp
 305 310 315 320
 Glu Asn Met

<210> 2214

<211> 130

<212> PRT

<213> Homo sapien (8099799-17-8549-9091)

<220>

<221> VARIANT

<222> (1)...(130)

<223> Xaa = Any Amino Acid

<400> 2214

Phe Xaa Ser Ser Ser Gly Gln Thr Arg His Phe Lys Ala Tyr Glu Xaa
 1 5 10 15
 His Leu Val Thr Gln Cys Ser Met Leu Trp Val Xaa Asp Xaa Tyr Phe
 20 25 30
 Leu Cys Ala Leu Leu Gln Pro Leu His His Gly Ser Lys Ser Xaa Thr

```

      35              40              45
Gln Gly Ser Ser Phe Trp Ala Lys Gly Phe Val Leu Glu Val Ile Leu
  50              55              60
Ser Phe Ser Xaa Xaa Val Ala His Ile Cys Ser Xaa Leu Val Leu Ser
  65              70              75              80
Ala Phe Ser Cys Leu Xaa Asn Phe Met Ser Leu Thr Ala Phe Phe His
      85              90              95
Phe Val Leu Ser Leu Ser Leu Xaa His Lys Leu Val Val Phe Leu Lys
      100              105              110
Leu Tyr His Phe Xaa Lys Pro Gly Ser Pro Met Tyr Val Met Thr Ile
      115              120              125
His Ile
      130

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<210> 2215

<211> 188

<212> PRT

<213> Homo sapien (8102357-9-3785-4449)

<220>

<221> VARIANT

<222> (1)...(188)

<223> Xaa = Any Amino Acid

<400> 2215

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His Trp Lys Ile Leu Arg Arg Asn Ser Lys Met Ile His Glu Ile Ile
  1              5              10              15
Xaa Thr Leu Cys Gln Ile Leu Tyr Ser Glu Asp Lys Thr Cys Tyr Ile
      20              25              30
Gln Ile Gln Ser Leu Phe Cys Thr Asp Leu Glu Ile Pro Asn Phe Phe
      35              40              45
Cys Glu Leu Asn Xaa Val Val His Leu Ala Cys Ser Asp Thr Phe Leu
      50              55              60
Lys Asp Ile Val Arg Tyr Cys Thr Thr Met Leu Ser Gly Gly Pro
      65              70              75              80
Ile Ala Gly Ile Phe Tyr Ser Phe Ser Lys Ile Ile Ser Ser Ile Cys
      85              90              95
Ala Ile Pro Ser Ala Gln Gly Lys His Lys Ala Phe Pro Thr Cys Val
      100              105              110
Ser His Leu Ser Asn Met Ser Leu Phe Tyr Cys Arg Ser Thr Gly Leu
      115              120              125
Tyr Leu Ser Phe Ala Ala Thr His Asn Ser Cys Ser Asn Ala Thr Ala
      130              135              140
Ser Val Arg His Thr Val Val Lys Pro Leu Leu Asn Val Phe Ile Leu
      145              150              155              160
Lys Ser Ser Asn Lys Asp Ile Lys Xaa Ala Leu Lys Val Phe Phe Arg
      165              170              175
Gly Lys Gln Trp Lys His His Phe Ser Lys Ser Ala
      180              185

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<210> 2216

<211> 318

<212> PRT

<213> Homo sapien (8102369-26-1-1971)

<400> 2216

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Met Ala Gly Glu Asn His Thr Thr Leu Pro Glu Phe Leu Leu Leu Gly
  1              5              10              15
Phe Ser Asp Leu Lys Ala Leu Gln Gly Pro Leu Phe Trp Val Val Leu
      20              25              30
Leu Val Tyr Leu Val Thr Leu Leu Gly Asn Ser Leu Ile Ile Leu Leu

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      35              40              45
Thr  Gln Val Ser Pro Ala Leu His Ser Pro Met Tyr Phe Phe Leu Arg
   50              55              60
Gln  Leu Ser Val Val Glu Leu Phe Tyr Thr Thr Asp Ile Val Pro Arg
65              70              75              80
Thr  Leu Ala Asn Leu Gly Ser Pro His Pro Gln Ala Ile Ser Phe Gln
      85              90              95
Gly  Cys Ala Ala Gln Met Tyr Val Phe Ile Val Leu Gly Ile Ser Glu
      100              105              110
Cys  Cys Leu Leu Thr Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys
      115              120              125
Gln  Pro Leu Arg Tyr Ser Thr Leu Leu Ser Pro Arg Ala Cys Met Ala
      130              135              140
Met  Val Gly Thr Ser Trp Leu Thr Gly Ile Ile Thr Ala Thr Thr His
145              150              155              160
Ala  Ser Leu Ile Phe Ser Leu Pro Phe Arg Ser His Pro Ile Ile Pro
      165              170              175
His  Phe Leu Cys Asp Ile Leu Pro Val Leu Arg Leu Ala Ser Ala Gly
      180              185              190
Lys  His Arg Ser Glu Ile Ser Val Met Thr Ala Thr Ile Val Phe Ile
      195              200              205
Met  Ile Pro Phe Ser Leu Ile Val Thr Ser Tyr Ile Arg Ile Leu Gly
      210              215              220
Ala  Asn Leu Ala Met Gly Leu Thr Gln Ser Arg Arg Lys Val Phe Ser
225              230              235              240
Thr  Cys Ser Ser His Arg Leu Val Val Ser Leu Phe Phe Gly Thr Ala
      245              250              255
Ser  Ile Thr Asn Asn Arg Pro Gln Ala Gly Ser Ser Glu Thr Thr Asp
      260              265              270
Arg  Val Ile Ser Leu Phe Asn Thr Val Ile Thr Pro Met Leu Asn Pro
      275              280              285
Ile  Ile Asn Thr His Gly Asn Lys Asp Val Arg Arg Ala Leu Arg Tyr
      290              295              300
Leu  Val Lys Arg Arg Arg Pro Ser Pro Gly Arg Gly Ser Gly
305              310              315

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<210> 2217

<211> 109

<212> PRT

<213> Homo sapien (8102369-32-1554-1892)

<220>

<221> VARIANT

<222> (1)...(109)

<223> Xaa = Any Amino Acid

<400> 2217

```

Tyr Met Val Val Thr Leu Val Leu Val Ile Leu Ser Tyr Ala Phe Ile
 1              5              10              15
Ile Lys Thr Ile Leu Lys Leu Pro Ser Ala Gln Gln Arg Thr Lys Ala
      20              25              30
Phe Pro Thr Cys Ser Ser His Met Ile Val Ile Ser Leu Ser Tyr Gly
      35              40              45
Ser Cys Met Phe Met Tyr Ile Asn Pro Ser Ala Lys Asp Arg Asp Thr
      50              55              60
Phe Asn Lys Gly Val Ala Leu Leu Ile Thr Ser Val Ala Pro Leu Leu
65              70              75              80
Asn Pro Phe Ile Tyr Thr Leu Arg Asn Gln Gln Val Arg Gln Pro Phe
      85              90              95
Lys Asp Met Val Lys Lys Leu Leu Asn Leu Xaa Arg Ile
      100              105

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<210> 2218
 <211> 131
 <212> PRT
 <213> Homo sapien (8102369-33-1-1370)

<400> 2218
 Met Lys Asn Lys Thr Val Leu Thr Glu Phe Ile Leu Leu Gly Leu Thr
 1 5 10 15
 Asp Val Pro Glu Leu Gln Val Ala Val Phe Thr Phe Leu Phe Leu Ala
 20 25 30
 Tyr Leu Leu Ser Ile Leu Gly Asn Leu Thr Ile Leu Ile Leu Thr Leu
 35 40 45
 Leu Asp Ser His Leu Gln Thr Pro Met Tyr Phe Phe Leu Arg Asn Phe
 50 55 60
 Ser Phe Leu Glu Ile Ser Phe Thr Asn Ile Phe Ile Pro Arg Val Leu
 65 70 75 80
 Ile Ser Ile Thr Thr Gly Asn Lys Ser Ile Ser Phe Ala Gly Cys Phe
 85 90 95
 Thr Gln Tyr Phe Phe Ala Met Phe Leu Gly Ala Thr Glu Phe Tyr Leu
 100 105 110
 Leu Ala Ala Met Ser Tyr Asp Arg Tyr Val Ala Ile Cys Lys Leu Met
 115 120 125
 Thr Met His
 130

<210> 2219
 <211> 313
 <212> PRT
 <213> Homo sapien (8102369-49-1-1012)

<220>
 <221> VARIANT
 <222> (1)...(313)
 <223> Xaa = Any Amino Acid

<400> 2219
 Met Pro Asn Lys Ile Val Val Thr Glu Phe Phe Leu Thr Arg Pro Asp
 1 5 10 15
 Gly Leu Gln Lys Ser Phe Gln Val Ala Val Phe Leu Leu Pro Asp Ala
 20 25 30
 Cys His Thr Leu Xaa Leu Ser Leu Gly Thr Xaa Ile Ile Ile Thr Met
 35 40 45
 Thr Leu Leu Asp Thr Arg Met Gln Thr Ser Met Tyr Leu Phe Leu Gln
 50 55 60
 Asn Leu Ser Cys Leu Glu Ile Trp Phe Gln Thr Val Ile Val Pro Lys
 65 70 75 80
 Met Leu Leu Asn Ile Ala Met Gly Thr Lys Thr Val Ser Phe Ala Gly
 85 90 95
 Cys Ile Thr Gln Asp Phe Phe His Ile Phe Leu Gly Ala Thr Glu Phe
 100 105 110
 Phe Leu Leu Thr Ala Met Ala Tyr Asp Gln Tyr Ile Ala Ile Cys Lys
 115 120 125
 Pro Leu His Tyr Pro Met Leu Ile Ser Ser Arg Val Cys Thr Gln Leu
 130 135 140
 Ile Leu Thr Cys Trp Leu Leu Gly Phe Ser Phe Ile Ile Met Pro Val
 145 150 155 160
 Ile Leu Thr Ser Gln Leu Pro Phe Cys Asp Thr His Ile Lys His Phe
 165 170 175
 Phe Cys Asp Tyr Thr Pro Leu Met Glu Val Val Cys Ser Gly Pro Lys
 180 185 190

Val Leu Glu Met Val Asp Phe Thr Leu Ala Leu Val Ala Leu Phe Gly
 195 200 205
 Thr Leu Val Leu Ile Thr Leu Ser Tyr Val Gln Ile Ile Gln Thr Ile
 210 215 220
 Val Arg Ile Pro Ala Val Gln Glu Arg Lys Lys Ala Phe Ser Thr Cys
 225 230 235 240
 Ser Ser His Val Ile Met Val Thr Met Cys Tyr Asp Ser Cys Phe Phe
 245 250 255
 Met Tyr Val Lys Pro Ser Pro Gly Lys Trp Val Asp Val Asn Lys Gly
 260 265 270
 Val Ser Leu Ile Asn Thr Ile Ile Ala Pro Leu Leu Asn Pro Phe Ile
 275 280 285
 Cys Thr Leu Arg Asn Gln Gln Val Lys Gln Val Met Lys Asp Leu Val
 290 295 300
 Arg Lys Met Thr Leu Ser Glu Asn Lys
 305 310

<210> 2220
 <211> 96
 <212> PRT
 <213> Homo sapien (8117362-7-1589-1951)

<220>
 <221> VARIANT
 <222> (1)...(96)
 <223> Xaa = Any Amino Acid

<400> 2220
 Pro Leu Xaa Leu Met Val Val Ile Phe Ser Gln Val Tyr Thr Leu Ala
 1 5 10 15
 Ala Ile Pro Lys Met Ser Ser Thr Ala Gly Arg Thr Gln Gly Phe Phe
 20 25 30
 Met Xaa Ala Ser His Leu Thr Ala Val Val Ile Phe Tyr Gly Thr Pro
 35 40 45
 Ser Tyr Met Tyr Leu His His Gly Asn Asn Gly Ser Pro Lys Gln Gly
 50 55 60
 Lys Val Ser Ser Val Phe Tyr Gly Ile Val Ile Asp Leu Ser Leu Arg
 65 70 75 80
 Val Gln Asp Ala Arg Glu Ala Leu Lys Glu Lys Gly Lys Lys Gln Phe
 85 90 95

<210> 2221
 <211> 195
 <212> PRT
 <213> Homo sapien (8117365-9-1-1453)

<220>
 <221> VARIANT
 <222> (1)...(195)
 <223> Xaa = Any Amino Acid

<400> 2221
 Arg Met Phe Xaa Thr Xaa Phe Phe Ser Ser Leu Thr Leu Arg Leu Gln
 1 5 10 15
 Leu Ser His Leu Phe Pro Cys Leu Gly Tyr Val Phe Ser Leu Leu Gly
 20 25 30
 Xaa His Asp Lys Arg Tyr Met Ile Gln Leu Asn Pro Ser Leu Ala Val
 35 40 45
 Leu Lys Cys Val Ile Phe Trp Cys Val Cys Val Leu Val Cys Met Ser
 50 55 60
 Tyr Glu Glu Gly Glu Arg Leu Ser Thr Ser Phe Leu Ala Pro Cys Val

| | | | | | | | | | | | | | | | | | |
|-------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|
| <400> | 2222 | | | | | | | | | | | | | | | | |
| Cys | Val | Asp | Ser | Ser | Leu | Lys | Xaa | Glu | Ile | Thr | Gln | Xaa | Cys | Leu | Ser | | |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | | | |
| Leu | Leu | Leu | Xaa | Met | Ala | Glu | Gly | Trp | Arg | Leu | Tyr | Phe | Ile | Ile | Leu | | |
| | | | 20 | | | | | 25 | | | | | 30 | | | | |
| Ile | Ile | Ser | Tyr | Lys | Phe | Cys | Thr | Leu | Leu | Gly | Asn | Val | Ile | Phe | Arg | | |
| | | 35 | | | | | 40 | | | | | 45 | | | | | |
| Thr | Leu | Val | Cys | Ser | Leu | Gly | Phe | His | Thr | Ser | Cys | Met | Tyr | Phe | Phe | | |
| | | 50 | | | | 55 | | | | | 60 | | | | | | |
| Pro | Xaa | Lys | Ile | Ser | Leu | Xaa | Leu | Ala | Xaa | Val | Cys | His | Ser | Ile | Ile | | |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 | | |
| Ala | Leu | Pro | Ser | Thr | Gln | Lys | Xaa | Ala | Ile | Asn | Val | Gln | Gly | Ala | Ala | | |
| | | | | 85 | | | | | 90 | | | | | 95 | | | |
| Val | His | Val | Phe | Ser | Phe | Pro | Cys | Leu | Tyr | Cys | Pro | Glu | Ile | Phe | Leu | | |
| | | | 100 | | | | | 105 | | | | | 110 | | | | |
| His | Ser | Leu | Thr | Gln | Cys | His | Pro | Phe | Ile | Ala | Ile | Gly | Tyr | Pro | Leu | | |
| | | 115 | | | | | 120 | | | | | 125 | | | | | |
| Gln | Gly | Met | His | Thr | Ile | Thr | His | Lys | Leu | Tyr | Ile | Leu | Leu | Thr | Thr | | |
| | | 130 | | | | 135 | | | | | 140 | | | | | | |
| Gly | Pro | Trp | Arg | Gly | Cys | Xaa | Leu | His | Val | Asn | Leu | Leu | Thr | Ala | Leu | | |
| 145 | | | | | 150 | | | | | 155 | | | | | 160 | | |
| Leu | Gly | Ser | Tyr | Pro | Asn | Pro | Val | Pro | Thr | Lys | Leu | Trp | Leu | Ser | Phe | | |
| | | | | 165 | | | | | 170 | | | | | | 175 | | |
| Pro | Ser | Ile | Pro | Glu | Val | Lys | Leu | Xaa | Pro | Met | Gln | Ala | Tyr | Thr | Lys | | |
| | | | 180 | | | | | 185 | | | | | 190 | | | | |
| Pro | Tyr | Ala | Gly | Leu | Ser | Leu | Cys | Leu | Ser | Leu | Ser | Leu | Ser | Leu | Ser | | |
| | | 195 | | | | | 200 | | | | | 205 | | | | | |
| Phe | Ser | Leu | Phe | Ser | Ile | Ile | Ser | Ile | Ser | Tyr | Ile | Cys | Asn | Glu | Ile | | |
| | | 210 | | | | 215 | | | | | 220 | | | | | | |
| asp | Ile | Pro | Lys | Ile | Ile | Ser | Ala | Asp | Ser | Val | His | Gly | Ala | Phe | Ser | | |
| 25 | | | | | 230 | | | | | 235 | | | | | 240 | | |
| thr | Cys | Leu | Ala | His | Leu | Phe | Ala | Phe | Ser | Thr | Cys | Ile | Ala | Gln | Pro | | |
| | | | | 245 | | | | | 250 | | | | | 255 | | | |

Ala Val Cys Asn Ser Leu Trp Pro Trp Thr Glu Ala Gln Thr Glu Ser
 260 265 270
 Ser Arg Asp Ser Val Ile Gln Arg Pro Asn Leu Cys Val Thr Ile Ser
 275 280 285
 Leu Asn Ser Leu Ile Ser Ser Leu Arg Asn Glu Ser Val Lys Gln Ala
 290 295 300
 Ser His Lys Ile Phe Lys Glu Gln Thr Leu Phe Met Lys Ile
 305 310 315

<210> 2223

<211> 304

<212> PRT

<213> Homo sapien (8117535-5-1968-4011)

<220>

<221> VARIANT

<222> (1)...(304)

<223> Xaa = Any Amino Acid

<400> 2223

Met Arg Asn His Thr Leu Leu Asn Glu Phe Ile Leu Arg Gly Ile Pro
 1 5 10 15
 Gln Thr Glu Gly Leu Glu Ala Val Leu Cys Ala Val Phe Ser Phe Ile
 20 25 30
 Tyr Leu Phe Thr Leu Leu Gly Asn Leu Leu Ile Leu Ile Ala Ile Phe
 35 40 45
 Leu His Thr Pro Met Tyr Phe Phe Leu Gly Arg Leu Ser Thr Phe Asp
 50 55 60
 Ile Leu Phe Pro Ser Val Thr Cys Pro Lys Met Leu Leu Tyr Leu Ser
 65 70 75 80
 Gly Gln Ser Pro Val Ile Ser Phe Lys Gly Cys Ala Ser Gln Leu Phe
 85 90 95
 Phe Tyr Gln Leu Leu Gly Ser Ala Glu Gly Cys Leu Tyr Ser Val Met
 100 105 110
 Ser Tyr Asp Arg Phe Val Ala Ile His His Thr Leu Arg Tyr Met Leu
 115 120 125
 Ile Met Lys Pro Gly Val Cys Val Gly Leu Val Val Pro Trp Leu
 130 135 140
 Val Gly Cys Leu His Ala Thr Ile Leu Thr Ser Phe Thr Phe Gln Leu
 145 150 155 160
 Ser Tyr Cys Gly Pro Asn Gln Val Asp Tyr Phe Phe Cys Asp Ile Pro
 165 170 175
 Ala Val Leu Pro Leu Ala Cys Thr Asp Ser Ala Leu Ala Gln Arg Val
 180 185 190
 Gly Ser Ile Asn Val Gly Phe Leu Ala Leu Thr Leu Leu Ile Ser Val
 195 200 205
 Cys Val Cys Tyr Thr Ser Ile Gly Ile Ala Ile Leu Arg Ile Arg Ser
 210 215 220
 Ser Glu Gly Arg Gln Lys Ala Phe Ser Thr Cys Ser Ala His Leu Val
 225 230 235 240
 Ala Ile Leu Cys Ala Tyr Gly Pro Val Ile Ile Tyr Leu Lys Ser
 245 250 255
 Thr Pro Asn Pro Leu Leu Gly Gly Gln Val Gln Ile Leu Asn Asn Val
 260 265 270
 Val Ser Pro Met Leu Asn Ser Leu Ile Tyr Ser Leu Arg Asn Lys Glu
 275 280 285
 Val Lys Arg Ser Leu Lys Arg Val Phe Xaa Asn Val Leu Leu Thr Val
 290 295 300

<210> 2224

<211> 268

<212> PRT

<213> Homo sapien (8117653-5-5695-6912)

<400> 2224

```

Met Met Ala Leu Ile Phe Thr Asp Ser His Leu Gln Ser Pro Met Tyr
1      5      10      15
Phe Phe Leu Asn Val Leu Ser Phe Leu Asp Ile Cys Tyr Ser Ser Val
20      25      30
Val Thr Pro Lys Leu Leu Val Asn Phe Leu Val Ser Asp Lys Ser Ile
35      40      45
Ser Phe Glu Gly Cys Val Val Gln Leu Ala Phe Phe Val Val His Val
50      55      60
Thr Ala Glu Ser Phe Leu Leu Ala Ser Met Ala Tyr Asp Arg Phe Leu
65      70      75      80
Ala Ile Cys Gln Pro Leu His Tyr Gly Ser Ile Met Thr Arg Gly Thr
85      90      95
Cys Leu Gln Leu Val Ala Val Ser Tyr Ala Phe Gly Gly Ala Asn Ser
100      105      110
Ala Ile Gln Thr Gly Asn Val Phe Ala Leu Pro Phe Cys Gly Pro Asn
115      120      125
Gln Leu Thr His Tyr Tyr Cys Asp Ile Pro Pro Leu Leu His Leu Ala
130      135      140
Cys Ala Asn Thr Ala Thr Ala Arg Val Val Leu Tyr Val Phe Ser Ala
145      150      155      160
Leu Val Thr Leu Leu Pro Ala Ala Val Ile Leu Thr Ser Tyr Cys Leu
165      170      175
Val Leu Val Ala Ile Gly Arg Met Arg Ser Val Ala Gly Arg Glu Lys
180      185      190
Asp Leu Ser Thr Cys Ala Ser His Phe Leu Ala Ile Ala Ile Phe Tyr
195      200      205
Gly Thr Val Val Phe Thr Tyr Val Gln Pro His Gly Ser Thr Asn Asn
210      215      220
Thr Asn Gly Gln Val Val Ser Val Phe Tyr Thr Ile Ile Ile Pro Met
225      230      235      240
Leu Asn Pro Phe Ile Tyr Ser Leu Arg Asn Lys Glu Val Lys Gly Ala
245      250      255
Leu Gln Arg Lys Leu Gln Val Asn Ile Phe Pro Gly
260      265

```

<210> 2225

<211> 184

<212> PRT

<213> Homo sapien (8117705-18-1061-1646)

<220>

<221> VARIANT

<222> (1)...(184)

<223> Xaa = Any Amino Acid

<400> 2225

```

Leu Val Lys Val Lys Lys Asn Xaa Asn Ile Phe Leu Ser Thr Ala Tyr
1      5      10      15
His Phe Phe Pro Thr Leu Ser Val Asn Asn Asn Lys Phe Leu Xaa Ile
20      25      30
Ile Asn Asn Asn Phe Xaa Val Xaa Phe Asn Leu His Ser Glu Thr Ser
35      40      45
His Ser Xaa Val Tyr Ser Leu Val Leu Ser Ser Lys Val Cys Ile Leu
50      55      60
Leu Ala Ala Gly Val Val Gly Gly Ile Leu Ser Arg Arg Ile Val Cys
65      70      75      80
Gly Pro Thr Val Ser Leu Ser Ser Ser Arg Ser Asn Ala Ile Asn His

```

```

      85      90      95
Phe Phe Cys Asn Lys Ser Leu Gly Leu Gly Leu Ser Cys Tyr Asn Ile
      100      105      110
Tyr Ile Ser Thr Ala Val Pro Ala Phe Val Gly Val Xaa Val Leu His
      115      120      125
Ser Leu Pro Tyr Leu Val Ile Met Phe Ser Trp Thr Tyr Ile Leu Val
      130      135      140
Ala Ile Lys Arg Met Ser Ser Val Gly Arg Lys Glu Leu Ser Ile Cys
      145      150      155      160
Val Ser His Leu Lys Thr Ser Thr Ile Phe His Thr Ala Leu Phe Tyr
      165      170      175
Val Tyr Leu Gln Pro Asp Phe Phe
      180

```

<210> 2226
 <211> 148
 <212> PRT
 <213> Homo sapien (8117705-9-1-790)

<220>
 <221> VARIANT
 <222> (1)...(148)
 <223> Xaa = Any Amino Acid

```

<400> 2226
Thr Tyr Asp Val Pro Arg Ser Gly Leu Cys Ile Val Ser Tyr Asn Thr
  1      5      10      15
Cys Lys Ser Thr Met Met Ser Ile Lys Ile Gln Leu Lys Tyr Met Xaa
      20      25      30
Xaa Lys Xaa Leu Leu Ile Tyr Ala Gly Val Tyr Leu Asn Val Thr Met
      35      40      45
Leu Ile Val Thr Phe Lys Tyr Thr His Ile Phe His His Pro Glu Leu
      50      55      60
Ala Leu Cys Tyr Val Ser Phe Ser Ala Val Val Phe His Leu Thr Ala
      65      70      75      80
Val Thr Ile Phe Phe Gly Ala Leu Ser Tyr Met Asp Leu Gln Pro Glu
      85      90      95
Ser Thr Val Phe Gln Glu Gln Glu Asn Pro Ala Ser Ile Phe Cys Gly
      100      105      110
Ile Met Thr Leu Val Leu Asn Phe Leu Ile Tyr Cys Leu Xaa Asn Xaa
      115      120      125
Glu Val Lys Glu Ala Leu Gln Leu Thr Arg Lys Lys Tyr Xaa Tyr Met
      130      135      140
Xaa Thr Glu Gly
      145

```

<210> 2227
 <211> 115
 <212> PRT
 <213> Homo sapien (8118143-13-1464-2322)

```

<400> 2227
Met Phe Val Val Ala Gly Phe Asn Phe Thr Tyr Pro Leu Leu Ile Ile
  1      5      10      15
Leu Ile Ser Tyr Leu Tyr Ile Phe Pro Ala Thr Leu Arg Ile Cys Ser
      20      25      30
Thr Glu Gly Arg His Lys Ala Phe Ser Thr Cys Gly Ser His Leu Thr
      35      40      45
Ala Val Thr Ile Phe Tyr Ser Ala Leu Phe Phe Met Tyr Leu Arg Arg
      50      55      60
Pro Ser Glu Glu Ser Met Glu Gln Gly Lys Met Val Ala Val Phe Tyr

```

```
<210> 2228
<211> 157
<212> PRT
<213> Homo sapien (8118143-4-5591-10363)
```

```
<220>  
<221> VARIANT  
<222> (1)...(157)  
<223> Xaa = Any Amino Acid
```

```
<210> 2229
<211> 320
<212> PRT
<213> Homo sapien (8118143-4-617-5265)
```

```
<220>  
<221> VARIANT  
<222> (1)...(320)  
<223> Xaa = Any Amino Acid
```

```

<400> 2229
Met Leu Val Pro Lys Lys Met Val Arg Gly Asn Ser Thr Leu Val Thr
 1                    5                10              15
Glu Phe Ile Leu Leu Gly Leu Lys Asp Leu Pro Glu Leu Gln Pro Ile
      20                25              30
Leu Phe Val Leu Phe Leu Leu Ile Tyr Leu Ile Thr Val Gly Gly Asn
      35                40              45
Leu Gly Met Leu Val Leu Ile Arg Ile Asp Ser Arg Leu His Thr Pro
      50                55              60
Met Tyr Phe Phe Leu Ala Ser Leu Ser Cys Leu Asp Leu Tyr Tyr Ser
65                70                75              80

```

Thr Asn Val Thr Pro Lys Met Leu Val Asn Phe Phe Ser Asp Lys Lys
 85 90 95
 Ala Ile Ser Tyr Ala Ala Cys Leu Val Gln Cys Tyr Phe Phe Ile Ala
 100 105 110
 Val Val Ile Thr Glu Tyr Tyr Met Leu Ala Val Met Ala Tyr Asp Arg
 115 120 125
 Tyr Val Ala Ile Cys Asn Pro Leu Leu Tyr Ser Ser Lys Met Ser Lys
 130 135 140
 Gly Leu Cys Ile Arg Leu Ile Ala Gly Pro Tyr Val Tyr Gly Phe Leu
 145 150 155 160
 Ser Gly Leu Met Glu Thr Met Trp Thr Tyr His Leu Thr Phe Cys Gly
 165 170 175
 Ser Asn Ile Ile Asn His Phe Tyr Cys Ala Asp Pro Pro Leu Ile Arg
 180 185 190
 Leu Ser Cys Ser Asp Thr Phe Ile Lys Glu Thr Ser Met Phe Val Val
 195 200 205
 Ala Xaa Phe Asn Leu Ser Ser Leu Ile Ile Ile Leu Ile Ser Tyr
 210 215 220
 Ile Phe Ile Leu Ile Ala Ile Leu Arg Met Arg Ser Ala Glu Ser Arg
 225 230 235 240
 Arg Lys Ala Phe Ser Thr Cys Gly Ser His Leu Val Ala Val Thr Val
 245 250 255
 Phe Tyr Gly Thr Leu Phe Cys Met Tyr Val Arg Pro Pro Thr Asp Arg
 260 265 270
 Ser Val Glu Gln Ser Lys Val Ile Ala Val Phe Tyr Thr Phe Val Ser
 275 280 285
 Pro Met Leu Asn Pro Ile Ile Tyr Ser Leu Arg Asn Lys Asp Val Lys
 290 295 300
 Gln Ala Phe Trp Lys Leu Ile Arg Arg Asn Val Leu Leu Lys Xaa Asn
 305 310 315 320

<210> 2230

<211> 312

<212> PRT

<213> Homo sapien (8118750-5-4885-6910)

<220>

<221> VARIANT

<222> (1)...(312)

<223> Xaa = Any Amino Acid

<400> 2230

Met Xaa Asn Ser Arg Glu Ala Ser Gln Phe Ile Phe Leu Gly Leu Ser
 1 5 10 15
 Asn Val Pro Glu Leu Gln Val Pro Phe Phe Ile Met Phe Val Leu Ile
 20 25 30
 Tyr Leu Ile Asn Val Val Gly Asn Leu Gly Met Ile Ile Leu Ile Leu
 35 40 45
 Trp Tyr Ser Gln Leu His Asn Pro Met Tyr Phe Phe Ser Asn Leu
 50 55 60
 Ser Leu Val Asp Phe Phe Tyr Ser Ser Val Val Thr Pro Lys Val Met
 65 70 75 80
 Thr Gly Leu Leu Arg Glu Asp Lys Ile Ile Ser Tyr Thr Val Trp Ala
 85 90 95
 Thr Gln Thr Phe Phe Ser Asp Ser Phe Ala Ser Val Val Asn Leu Leu
 100 105 110
 Leu Ala Leu Met Ala Ser Gly His Tyr Ala Ala Val Cys Lys Pro Leu
 115 120 125
 His Tyr Thr Thr Thr Met Met Thr Ser Val Cys Thr Cys Leu Ala Ile
 130 135 140
 Gly Xaa Tyr Val Gly Gly Phe Leu Asn Ala Ser Ile His Thr Gly Glu